

20000822.qrp v01_n921.qrl.20000822

Date: Tue, 22 Aug 2000 19:03:03 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1921

QRP-L Digest 1921

Topics covered in this issue include:

- 1) [77821] Fox with New K2
by "Damon S Raphael, MD (w7md)" <w7md@azstarnet.com>
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by "Ron Polityka" <wb3aal@fast.net>
- 3) [77823] Re: QRP From Presque Isle State Park, PA.
by Tom and Roxy <zikot@erie.net>
- 4) [77824] Big QRO Demo
by Pete Burbank <plburbank@kih.net>
- 5) [77825] Re: Anybody Seen a PiG?
by Bill Stietenroth <k5zty@juno.com>
- 6) [77826] Re: Big QRO Demo
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- 7) [77827] K1T: International Lighthouse Weekend (Summary)
by K1JD@aol.com
- 8) [77828] Fox
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- 9) [77829] WA3WSJ in WV
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- 10) [77830] QRP Homebrew Question
by Tom and Roxy <zikot@erie.net>
- 11) [77831] Re: Yaesu QRP Rig Rumor
by "Paul Gerhardt" <pgerhardt@hotmail.com>
- 12) [77832] AL7FS Website: Updated 8/21/00
by Jim Larsen AL7FS <al7fs@pobox.alaska.net>
- 13) [77833] QSO with DIZ
by N10DL@aol.com
- 14) [77834] Re: Ham in Pensacola
by "Jade Products, Inc." <jadepro@jadeprod.com>
- 15) [77835] RE: WA3WSJ in WV
by "David Bixler" <qrp@netins.net>
- 16) [77836] FS: Elecraft K2
by Dave Fifield <fifield@pacbell.net>
- 17) [77837] FS - Ten Tec 509
by radioham@home.com
- 18) [77838] FS: Elecraft K2
by Dave Fifield <fifield@pacbell.net>
- 19) [77839] Re: QRP Homebrew Question

- by Dan Tayloe <dtayloe@home.com>
- 20) [77840] Re: "2 X QRP QSO" Stickers, Where?
by George Gingell <k3tks@u1.abs.net>
- 21) [77841] OT: Probable boring News
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
- 22) [77842] Re: QRP Homebrew Question
by Dan Tayloe <dtayloe@home.com>
- 23) [77843] Fw: antenna efficiency
by Bill Lazure <n2tpa@juno.com>
- 24) [77844] Yaesu's 'K2' ... ?
by Radman <radman@best.com>
- 25) [77845] Mailing to Canada
by "Karl F. Larsen" <k5di@zianet.com>
- 26) [77846] Re: QRP Homebrew Question
by "Karl F. Larsen" <k5di@zianet.com>
- 27) [77847] Re: Yaesu's 'K2' ... Photos
by Frank Alwine <n1gpy@together.net>
- 28) [77848] Re: QRP Homebrew Question
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
- 29) [77849] Re: QRP Homebrew Question
by "John J. McDonough" <wb8rcr@arrl.net>
- 30) [77850] Re: Mailing to Canada
by Dave Marling <dbm@klis.com>
- 31) [77851] follow-up on SG-8002 oscillators
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
- 32) [77852] QRP groups in Spokane?
by Mike <mparkes@att.net>
- 33) [77853] Re: follow-up on SG-8002 oscillators
by David Hinerman <dlh1009@ritvax.isc.rit.edu>
- 34) [77854] Re: QRP Power (formerly Anybody Seen a PiG?)
by Rick Sealey <rsealey@InfoAve.Net>
- 35) [77855] Re: Yaesu QRP Rig Rumor
by Bruce Muscolino <w6toy@erols.com>
- 36) [77856] Re: VHF SSB QRP
by "Lau, Zack, W1VT" <z1au@arrl.org>
- 37) [77857] Re: Oscilloscope bandwidth
by Bill Coleman AA4LR <aa4lr@radio.org>
- 38) [77858] CD based Tomes
by "Brian" <brian@iquiest.net>
- 39) [77859] RE: Anybody Seen a PiG?
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 40) [77860] OT - Mailing to Canada
by Pat Byers <pbyers@rttinc.com>
- 41) [77861] RE: Oscilloscope bandwidth
by "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
- 42) [77862] Re: FT-817
by "Caitlyn M. Martin" <caitlyn@netferrets.net>
- 43) [77863] OT=Low Power Rules!

- by Shepherd@aol.com
- 44) [77864] Re: QRP Homebrew Question
by Dan Tayloe <dtayloe@home.com>
 - 45) [77865] Re: QRP Homebrew Question
by Dan Tayloe <dtayloe@home.com>
 - 46) [77866] FT-817 (was Re: Yaesu QRP Rig Rumor)
by "Caitlyn M. Martin" <caitlyn@netferrets.net>
 - 47) [77867] RE: Anybody Seen a PiG?
by "AI2Q Alex" <ai2q@ispchannel.com>
 - 48) [77868] Re: Yaesu QRP Rig Rumor
by Lee Hopper <leehop@uswest.net>
 - 49) [77869] Canadian Islands Awards Program
by "Armin Hachmer" <armin@muskoka.com>
 - 50) [77870] FS: QRP Rigs for sale
by "Joe Spencer" <kk5na@quadj.com>
 - 51) [77871] Re: OT - Mailing to Canada [and propagation]
by Macstein@aol.com
 - 52) [77872] Stock market insiders sell off ??
by "Walter D Amos" <waltk8cv@surfree.com>
 - 53) [77873] Re: QRP Power (formerly Anybody Seen a PiG?)
by Bob Nielsen <nielsen@oz.net>
 - 54) [77874] Re: Oscilloscope bandwidth
by Steve Yates <aa5tb@yahoo.com>
 - 55) [77875] Re: Bubba Sprint question
by Bob Hightower <nk7m@extremezone.com>
 - 56) [77876] RE: Stock market insiders sell off ??
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
 - 57) [77877] QRP AFIELD Planning
by Bill Jones <kd7s@psnw.com>
 - 58) [77878] Shipping To Canada
by "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>
 - 59) [77879] Re: follow-up on SG-8002 oscillators
by "Mike Branca" <w3irz@att.net>
 - 60) [77880] NC20 question
by Allan G Taylor <k7gt@qsl.net>
 - 61) [77881] Re: Expanded frequency coverage of the SMK-1???
by "Arthur G. Silvers" <ags@ieee.org>
 - 62) [77882] 10 Turn Trimpots and 20m operation
by "Shawn Upton" <shawn-upton@orgella.com>
 - 63) [77883] Thanks/ QRP Expedition
by "Joel Kluender, NF9K" <nf9k@eudoramail.com>
 - 64) [77884] [CLUB-NET] NE-QRP Club
by Joel Malman <malman@world.std.com>
 - 65) [77885] Re: Expanded frequency coverage of the SMK-1???
by Bill Jones <kd7s@psnw.com>
 - 66) [77886] Re: Mailing to Canada
by "Marshall Emm" <mgemm@mtechnologies.com>
 - 67) [77887] Homebrew QRP Web page

- by "Maddog 'n' Miracles" <maddog@io.com>
- 68) [77888] RE: QRP Power (formerly Anybody Seen a PiG?)
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 69) [77889] Results of the 2000 FLIGHT OF THE BUMBLEBEES
by Russ Carpenter <russ@natworld.com>
- 70) [77890] no caterwauling today :-(
by Michael Neverdosky <mneverdosky@earthlink.net>
- 71) [77891] Re: VHF SSB QRP
by "W7TRX" <w7trx@mindspring.com>
- 72) [77892] Old regen receivers and Ross Hull
by Rick Weber <weber@accenttech.com>
- 73) [77893] Re: Expanded frequency coverage of the SMK-1???
by Pat Byers <pbyers@rttinc.com>
- 74) [77894] List e-mail filtering template for qrp-l on hotmail.com?
by "david feldman" <wb0gaz@hotmail.com>
- 75) [77895] Re: Old regen receivers
by George F Franklin <w0av@juno.com>
- 76) [77896] RE: QRP Power (formerly Anybody Seen a PiG?)
by "Hare, Ed, W1RFI" <w1rfi@arrl.org>
- 77) [77897] Re: Thanks/ QRP Expedition
by "JC Smith" <jc-smith@worldnet.att.net>
- 78) [77898] Noise Generator Kits-delay
by Bob Hightower <nk7m@extremezone.com>
- 79) [77899] FW: Thanks/ QRP Expedition
by "Charles Mabbott" <crmabbott@mediaone.net>
- 80) [77900] Re: CD based Tomes
by Tom Isgro <k8cz@concentric.net>
- 81) [77901] Rotatable dipoles ?
by Andreas Junge <andreas@OpenGrid.Com>
- 82) [77902] New Product: Morse Express Millennium Key
by "Marshall Emm" <mgemm@mtechnologies.com>
- 83) [77903] rotating guy rings
by Dave Pomeroy <dave_pomeroy@voyager.net>
- 84) [77904] RS-6 Filter Cap
by lnrr@juno.com
- 85) [77905] Re: [Elecraft] Noise Generator Kits-delay
by GElam30092@aol.com
- 86) [77906] DSW Mod Inductor Group Buy
by "Bruce Prior" <n7rr@hotmail.com>

Date: Mon, 21 Aug 2000 16:14:54 -0700
From: "Damon S Raphael, MD (w7md)" <w7md@azstarnet.com>
To: qrp-l@lehigh.edu
Subject: [77821] Fox with New K2
Message-ID: <39A1B7EE.8FF82517@azstarnet.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang,

Almost missed N4ROA yesterday. I was adjusting the filters in my new K2 (#1512) with Spectrogram and the n0ss Noise Generator (kit secured from QRP ScQRPions at Ft Tuthill).

I had forgotten about the Foxhunt but, by luck, happened to check the QRP-L list and was reminded that the hunt was on with about 10 minutes to go.

I had not worked the FOX from my home QTH since loss of the 6-e1 monobander last month and that antenna has not been replaced yet. What to do?

I loaded my 40 meter rotatable dipole but although the match was good (low SWR and good power out on the WM-2) with the KAT2 Elecraft ATU, the reception was poor -> no FOX heard.

I then loaded the Force 12 4BA MultiBand Yagi (17-10 meters) and heard considerably better and found and worked N4ROA on the first call with a 449 report - with about 2 minutes left in the hunt.

The 40 meter antenna here is fed with 450 feet of hardline. Probably, the losses at 14 MHz with high SWR on the long feedline, inspite of the good match at the XCVR, were to blame for the lack of succes with that antenna.

The 4BA, on the other hand, is fed with 100' of R-213 and the actual SWR mismatch on the line may have been lower than on the 40. But I was able to make the contact with 5 watts and less than optimum antenna.

The last FOX which I had worked was Doc in ND while I was on vacation in Pinetop, AZ, using my ICOM-706 MKIIG turned down to 5 W and a 40 meter Carolina Windom with a 50 foot feedline (RG-58)in inverted Vee shape - apex at 50 feet+, a good multiband antenna.

The challenge of QRP is a new area of interest for me and I am enjoying it thoroughly.

73,

Damon, W7MD
Tucson, AZ

Date: Mon, 21 Aug 2000 19:52:30 -0400
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@Lehigh.EDU>
Subject: [77822] Appalachian Trail Activation in PA 8/19/00
Message-ID: <004501c00bca\$deb9ed00\$34125cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

Well I headed off on Saturday 15 minutes behind schedule.
I arrived on the AT at 8 AM and I hiked in about 3/4 of a mile.
I found a nice big old tree that I shot a line into with my sling shot.
Tall trees, 40 foot or better, are hard to find on the AT on top of a
mountain. I learned that fishing line does not travel over wet bark
too easily. I got my Killer Vertical up and it worked great.

I called CQ on 40 meters starting at 9:30 AM. I called for 45 minutes
on 7.038 MHz and I had no takers. So I went to 30 meters and I had
some QSOs with stations on the East Coast.

Over all I made 14 contact between 40, 30 & 15 meters. I also made two
SSB contacts with K1QM in MA & N2SEX the light house in Cap May, NJ.
I had a F6 station call me on 15 meter CW, I went back to him but I had no
reply.

Three deer came up behind me about 300 feet away. I moved and scared
them, boy did I jump!! I seen a flock of starling birds flying thru the
woods about
2 to 8 feet high off the ground. This flock went on for about 4 minutes.
About
5 minutes later they cut across the back side and turned towards me. Time
for
the Hat!! I turned on the speaker and they flew around me. It looked like
the
Hitchcock movie "The Birds".

Thanks to all the stations that replied to my CQ. Sorry I did not pick out
the calls
on the weak stations. Don't worry, I plan to go back soon to the same site.

72 & 73
Good DXing

Ron Polityka

de WB3AAL
wb3aal@fast.net

vvv Eastern Pennsylvania QRP Web Page vvv
http://www.n3epa.org
Eastern Pennsylvania QRP Club Call
N3EPA E-mail address: n3epa@fast.net

EPA QRP #1	ARRL Life Member
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal	Zombie #625
ARS # 380	HI QRP #153
VA QRP Society #45	MI QRP #1703
K2 sn1392	NJ QRP #179

Date: Mon, 21 Aug 2000 19:59:06 -0400
From: Tom and Roxy <zikot@erie.net>
To: qrp-1@Lehigh.EDU
Subject: [77823] Re: QRP From Presque Isle State Park, PA.
Message-ID: <3.0.5.32.20000821195906.007c6b00@erie.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Oooops! I had my UTC times wrong. Here is the corrected copy:

Well, here is a breakdown of how my QRP endeavour went from Presque Isle State Park here in Erie, PA.

I had to help my XYL with a few last minute details which pushed my time up to 11:30 local. At 12:00 I decided to use the picnic table to the left of the cabin to keep the balloons away from the tall trees to the right. The wind started to pick up so I opted not to launch the balloons. If I had tried they would have been blown almost horizontal and gone past the cabin and over the road into a small field. After I did launch the balloons this did happen a few times. The wind kept up for most of the day with a few periods of relative calm. I would approximate the wind speed to 10-12 kts. At this point I got my fishing pole and tackle box out and tried my luck at the pond adjacent to the cabin. That was also a bust. At around 5:15pm the wind started to subside a little and by 5:30pm my XYL and I got 10 12" balloons together and I attached the 65' of #24 AWG wire and away it went, almost verticle. The antenna kept bobbing down at a 45 deg angle from verticle. At one point the breeze managed to carry them into the tree and one of the balloons broke. My XYL, I love her dearly

for her assistance, reeled the antenna back in and we proceeded to put two balloons on to give it more lift. My concern was that the wind, along with the lift from the balloons, would snap the wire where it was spliced. From this point on the balloons never got close to the trees. Here is a list of my contacts:

UTC	Call Name/QTH	His	Mine
2145	W3BBO Bob, Erie, PA.	559	539
2155	K2UD Howard, Buffalo, NY.	559	339
2235	WA8BXN Mike, Kirkland, OH.	599	559

I kept on calling CQ, eventhough the QRM started getting very bad by 7:00pm local. There was too much QRM from the NJ QSO party, Lighthouse QSO's, and digital. However, I managed to hang in there until I went QRT at 8:30pm. I really enjoy QRP in the field and even though I only had 3 QSO's the experience of making a contact with only 250mw is fantastic. I thank everyone that answered my CQ and for those that were listening for me. I fully intend to do this again but next time from my beach side location. I was interesting to note that when my antenna went verticle I got the better signal reports as noted by Bob, W3BBO in his email to me.

I will post to the QRP-L group my next outing to Presque Isle State Park. I wish I could have QSO'ed everyone that was listening for me, the anticipation of a possible QSO is almost as good a making one.... next time!! By then I fully expect to have my special QSL cards done.

If anyone is interested in a pix of my setup, the surrounding area, or Presque Isle please let me know for I have many to share. I may try to post a few on my webpage at <http://www.qth.net/wa1vai>.

73's es gud DX!

Tom & Roxanne
WA1VAI/3

Date: Mon, 21 Aug 2000 20:04:20 -0400
From: Pete Burbank <plburbank@kih.net>
To: <QRP-Canada@lists.gpfn.sk.ca>, <qrp-l@Lehigh.EDU>
Subject: [77824] Big QRO Demo

Message-ID: <3.0.32.20000821200416.0076da00@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi All,
At Sunday's Bluegrass ARC hamfest, Kentucky Utilities gave a demo on powerline hazards. It was spectacular and would make a believer out of any one to avoid powerlines and poles. Exposions, huge arcs, creosote fires from wet poles and ropes were included.
Very well done.
A great company !!!!.#1 On prices and service in the U.S.
Recently bought by the Brits and sure hope the quality holds.
(No Affiliation here)
I'm posting this because of a few posts recently about running antennas near or over power lines....DON'T EVEN THINK ABOUT IT!!
One demo involved wetting a pole with water and a huge arc crawling for several feet down the pole to a ground.
73 to all
Pete NV4V

Date: Mon, 21 Aug 2000 18:59:56 -0500
From: Bill Stietenroth <k5zty@juno.com>
To: ai2q@ispchannel.com
Cc: qrp-1@Lehigh.EDU
Subject: [77825] Re: Anybody Seen a PiG?
Message-ID: <20000821.190939.-3917777.0.k5zty@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Hey Alex,

I don't believe I've ever seen your name on a column. Why don't you write a QRP column for a national magazine so we can see what it should be like.

Bill, K5ZTY
Houston, TX

Date: Mon, 21 Aug 2000 17:10:27 -0700 (PDT)
From: "Robert P. Okas" <vintage@best.com>
To: Pete Burbank <plburbank@kih.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [77826] Re: Big QRO Demo

Message-ID: <Pine.BSF.4.21.0008211707540.2452-100000@shell14.ba.best.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Pete,

That sure sounds like a neat demonstration, wished I could have been there! I am curious about one thing: Where did the 'juice' come from to power these pyrotechnics?

73,
Bob - W3CD

On Mon, 21 Aug 2000, Pete Burbank wrote:

> Hi All,
> At Sunday's Bluegrass ARC hamfest, Kentucky Utilities gave a demo
> on powerline hazards. It was spectacular and would make a believer
> out of any one to avoid powerlines and poles. Exposions, huge arcs,
> creosote fires from wet poles and ropes were included.
> Very well done.
> A great company !!!!.#1 On prices and service in the U.S.
> Recently bought by the Brits and sure hope the quality holds.
> (No Affiliation here)
> I'm posting this because of a few posts recently about running
> antennas near or over power lines....DON'T EVEN THINK ABOUT IT!!
> One demo involved wetting a pole with water and a huge arc crawling
> for several feet down the pole to a ground.
> 73 to all
> Pete NV4V
>

Date: Mon, 21 Aug 2000 20:34:16 EDT
From: K1JD@aol.com
To: elecrafft@qth.net, qrp-1@lehigh.edu
Cc: kewagner@ids.net, w9vne@fuse.net, beezer@albq.uswest.net (Steve WD9FJL Keightly), dickb@akorn.net (Dick K2UFT Bentley),
jhenderson@swlink.net (Jim KF7E Henderson), kt5x@cnspl.com
Subject: [77827] K1T: International Lighthouse Weekend (Summary)
Message-ID: <17.a0bef93.26d32488@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

The subject weekend this year was a vast improvement over last year's event where a solar flare completely wiped the bands. The weather was exceptional, in the mid-70's and dry both days. Sunday AM the wind picked up to about 30 kts which is not unusual at Beavertail.

Ken K3IU and I operated sporadically, completing 119 QSO's and working 29 countries. All HF bands except 80 meters were used. Ken operated PSK31 Sat/Sun mornings on 20 & 10 meters using his K2 #920, laptop, and a Kanga SQ mast supporting an inverted V. Living here on the island, I operated mornings with Ken and returned for a few hours in the afternoon and evening. I worked all CW, except for 3 QSO's on (gasp) SSB, using K2 #139 and an Outbacker 12' Outreach on a big mag mount. Both K2's have the built in ATU which worked great.

Two hams stopped by mid-Sunday afternoon and their desire to play with the K2 accommodated. Neither had ever seen one "in the flesh". Both were aware of the lighthouse event and had decided to drive by to see if they could spot an antenna - hard to miss the 12' Outbacker on the roof of my car or truck.

The bands were on and off. Everyone has experienced conditions where there are many stations but none are very strong. This was the case for a large portion of the weekend. For example, 15 meters was at times filled with JA's but only a few were S3 or better (Shin, JA1NUT to name one). Conditions like these are not very good for QRP.. but every now and then we could be heard and heard well! Could have used a few extra dB for specific stations over the weekend (read: K2 PA would have helped - hi).

The Kanga mast was very easy to deploy, but it sure does bend and sway in the wind! The inverted V did better over the shorter paths and netted a total of 10 PSK31 QSO's, all stateside except for EA7FTR on 10 m. Not bad for 5 watts!

The Outbacker Outreach worked extremely well (UA9's, 4Z4, etc) with excellent reports over the long haul. For example, two of the three SSB contacts were with G3GBS and GB2L0 on 15 m. They gave "solid S 7" and "S 9" reports, respectively. Late Sunday afternoon, K1T was the subject of a big pileup on 14060 with mostly European stations calling. It's a strange feeling to be operating QRP with a mag-mounted antenna AND trying to pick callsigns out of a pileup! A quick check of DX Summit after returning home revealed several K1T spots by DX stations.

Pictures will be posted to a web page in the near future. Thanks to the many op's who worked us.

73,

John K1JD, K1T (Beavertail Lighthouse)
Jamestown, RI IOTA NA031
<http://hometown.aol.com/k1jd/index.html>
K2's #139 & #583 (& #917 & #948)

Date: Mon, 21 Aug 2000 20:19:48 -0400

From: Dan Wolfe <n4roa@mounet.com>
To: qrp-1@Lehigh.EDU
Subject: [77828] Fox
Message-ID: <39A1C724.2902@mounet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Evenin' all,

With the XYL's help, here is a "raw" log from this past Sunday's hunt.

As I said earlier, conditions pretty much a bummer here. Seems like every time I'm gonna be the Fox, these storms crop up. That's pretty typical here in the mountains this time of year though. Thank you, one and all, for the fun during my two runs. It was an honor and a pleasure to serve as the Fox this summer. Hope everything is typed in correctly. Look it over and check for typos. Let me know if we fouled up. Oh yeah, one QRO station (WA4GIJ/M) 100W.

My exchange was "559 VA Dan #970" to all except W7MD, Damon, who got an honest 449. Also, the committee will have to rule on my last contact as to whether it will count as a good one or not. NK9G came when the clock turned to 2200Z. I really hated to not at least give him a chance. See ye ole hounds on the bands. Have fun, fun, fun.

72...Dan, N4ROA
Gate City, Va.

2000 K5EOA	559	LA	WAYNE	4W
2001 N0UR 599	MN	JIM	799	
2002 AJ4Y 559	FL	PAUL	1795	
2003 KK5LD	599	TX	DAN	2052
2003 W0CH 579	MO	DAVE	618	
2004 W5YR 559	TX	GEO	1373	
2005 AA5UN	599	TX	MARTY	5W
2006 K5DI 579	NM	KARL	2195	
2006 K5AAR	559	OK	DON	1512
2007 N5IB 559	LA	JIM	1913	
2008 KB1ENS	559	VT	JOHN	2150
2009 VA6RF	579	AB	EARL	1076
2010 NQ7X 559	AZ	FLOYD	343	
2011 W7ILW	559	AZ	HOWARD	2010
2011 K0EVZ	569	ND	DOC	861
2012 K7TQ 559	ID	RANDY	102	
2013 VE7SL	579	BC	STEVE	967
2014 N1FN 559	CO	ET	153	

2015 VE5RC	339	SK	BRUCE	886
2015 W8DIZ	579	FL	DIZ	1998
2017 AF4PS	579	FL	MAC	704
2018 N5ZE 559	TX	LEW	2178	
2020 AE9F 559	CA	DAN	5W	
2022 N5GJQ	559	LA	MIKE	5W
2023 WJ1R 559	CO	LARRY	2137	
2024 NW7DX	559	WA	BEN	1892
2025 VE9GM	219	NB	GLEN	5W
2026 W5YW 559	LA	MIKE	5W	
2030 WQ0RP	559	MN	JIM	2W
2033 AA7EQ	559	AZ	BOB	918
2034 K7VNX	559	CA	ARLEN	5W
2036 AF5Z 579	TX	BOB	984	
2038 WD5CMA	559	LA	GLORIA	100mW
2039 N6WG 449	CA	BOB	26	
2040 VE5VA	599	SK	PETE	46
2041 K50I 559	NM	TIM	73	
2042 K7Q0 559	AZ	CHUCK	1	
2043 NK7M 579	AZ	BOB	271	
2044 N5TW 559	TX	TOM	1474	
2050 W0RW 599	CO	PAUL	1284	
2054 AJ4AY	449	AL	JAY	1372
2056 KA1DDB	559	MI	MIKE	2064
2057 W3CD 559	CA	BOB	238	
2105 K9IUA	229	ND	KEVIN	384
2107 N1TP 579	FL	TOM	1317	
2108 W0AV 599	MO	GEORGE	1866	
2109 WA7SPY	559	CA	GLENN	2214
2111 KC5NT	559	TX	ED	5W
2113 WA4GIJ/M449	FL	CHUCK	100W	
2121 KK6MC/5	559	NM	JIM	411
2124 N5FC 559	TX	MONTY	2202	
2129 W6BAB	549	CA	HARVEY	5W
2134 K5KW 579	OK	DON	5W	
2135 N5IW 559	TX	DAVE	1718	
2145 N7CQR	559	OR	DAN	502
2151 N0MF 559	IA	MIKE	1W	
2157 W7MD 449/449	AZ	DAMON	2190	
2159 N9AW 559	WI	JERRY	1271	
2200 NK9G 559	WI	RICK	2061	

Date: Mon, 21 Aug 2000 20:53:37 -0400
 From: "Ron Polityka" <wb3aal@fast.net>
 To: ". QRP-L" <qrp-l@Lehigh.EDU>, ". NJ QRP-L" <njqrp@njqrp.org>
 Subject: [77829] WA3WSJ in WV

Message-ID: <016501c00bd3\$6873d300\$34125cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

Ed, WA3WSJ, drove down to West Virginia today
to operate from the Appalachian Trail on Tuesday afternoon.

He is on 7040.0 with the time being 00:52 UTC now.

If you need WV go get him.

72 & 73
Good DXing

Ron Polityka
de WB3AAL
wb3aal@fast.net

vvv Eastern Pennsylvania QRP Web Page vvv
<http://www.n3epa.org>
Eastern Pennsylvania QRP Club Call
N3EPA E-mail address: n3epa@fast.net

EPA QRP #1	ARRL Life Member
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal	Zombie #625
ARS # 380	HI QRP #153
VA QRP Society #45	MI QRP #1703
K2 sn1392	NJ QRP #179

Date: Mon, 21 Aug 2000 21:16:28 -0400
From: Tom and Roxy <zikot@erie.net>
To: qrp-l@Lehigh.EDU
Subject: [77830] QRP Homebrew Question
Message-ID: <3.0.5.32.20000821211628.007cb1e0@erie.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi gang...

Has anyone ever build "The N7KSB" QRP xmtr that uses a 74HC240 high speed CMOS octal buffer?

http://members.xoom.com/_XMCM/VLantz/arqrp/rigs1.htm

I think it is also called "The N7KSB 49'er" ???

The reason that I am asking is because this looks like a rig that I could build, with success?? hi! I have gotten all the parts to build one for 15m. My question is: Does this rig use a 21mHz fundamental xtal? or is it a x3 overtone of a 7mHz xtal?? or does either work??

I am in need of a xtal to build this rig and if anyone has one that he or she doesn't need I would be willing to purchase it.

>From the URL it looks to me like the "49'er" is a different rig than the one that is featured.

73's es gud DX!

Tom & Roxanne
WA1VAI/3

Date: Mon, 21 Aug 2000 21:14:27 EDT
From: "Paul Gerhardt" <pgerhardt@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [77831] Re: Yaesu QRP Rig Rumor
Message-ID: <F148hSPuXg93VLnjJeD00007659@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Thanks to all who replied to me off-list! Got the specs and the photo!

This looks like a must have radio to me!

My ONE last qu is, what about the current draw on receive? Anybody have an idea. I hope putting the internal battery thing in is not just a tease!

Paul Gerhardt K3PG

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

Date: Mon, 21 Aug 2000 17:27:53 -0800
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [77832] AL7FS Website: Updated 8/21/00
Message-ID: <39A1D719.FF222068@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Greetings from Alaska,

I have updated my Home Page. <http://www.qsl.net/al7fs/>

I had a couple of people ask for a picture of my station. I have added that along with the details of the 1,549,111 miles per watt contact with ZL1MH.

Thank you.

73, Jim

--

Jim Larsen, AL7FS, Anchorage, Alaska
QRP-L CD Ver. 3.1 available: <http://www.qsl.net/al7fs/QRP-CDver3.htm>
QRP ARCI #6754 Check out <http://www.qrparci.org/>
<http://www.qsl.net/al7fs/> <mailto:al7fs@pobox.alaska.net>

Date: Mon, 21 Aug 2000 21:29:56 EDT
From: N10DL@aol.com
To: qrp-l@lehigh.edu
Subject: [77833] QSO with DIZ
Message-ID: <18.14d32ef.26d33194@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Just ran into Diz on 40 meters. very QRN but I got the report in. Did not have chance to chat though....RATS....was on the OHR400 and the Windom dipole in the woods.

CUL.....was getting a compls.....felt good to get on the air.

Aron

Date: Mon, 21 Aug 2000 19:20:57 -0400
From: "Jade Products, Inc." <jadepro@jadeprod.com>
To: "QRP-L List" <qrp-l@Lehigh.EDU>, "Paul Womble" <pwomble1@tampabay.rr.com>
Subject: [77834] Re: Ham in Pensacola
Message-ID: <008901c00bc6\$767fefe0\$2e615cc7@engineering>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

As usual the folks on this list are outstanding! I want to thank Paul Womble for going the extra mile and finding some help for an early request that was posted.

I knew the QRP-L would come through if anyone could...

Thanks Paul, and everyone else that responded, there were too many to individually send out replies. You guys are the greatest!

Dennis, K1YPP

Date: Mon, 21 Aug 2000 21:16:18 -0500
From: "David Bixler" <qrp@netins.net>
To: <wb3aal@fast.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [77835] RE: WA3WSJ in WV
Message-ID: <LPBBJOMLLEAMGKJIGOGDAEPNCAAA.qrp@netins.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Ron Polityka wrote:

> Ed, WA3WSJ, drove down to West Virginia today
> to operate from the Appalachian Trail on Tuesday afternoon.
> He is on 7040.0 with the time being 00:52 UTC now.

Ron:

Thanks for the heads-up posting. Managed to work him a few minutes ago, despite the static here in Missouri. He was my first AT contact, only 13 more states to go!

Thanks and 73,

Dave

David Bixler W0CH - VK2IQX
Seneca, Missouri QRP-L # 618
<http://www.qsl.net/w0ch/>

QRP: Little radios, big fun!

Date: Mon, 21 Aug 2000 19:38:21 -0700
From: Dave Fifield <fifield@pacbell.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [77836] FS: Elecraft K2
Message-ID: <003e01c00be2\$09f5ec00\$0100a8c0@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

AD6A's serial #625 Elecraft K2 with SSB, Internal Battery and Noise Blanker options.
Nice condition. Portable QRP all bander built with care, setup and measured on proper lab equipment. Some screws on underside of rig converted to countersunk (a small and successful experiment). Inductor mod done to get rid of the key clicks in the audio.
TX output transistor mountings modified to remove thermally deformed plastic spacers.
Manual/mod docs and a few other bits included. Kenwood MC-43S microphone included.

Moving house, need to make space - I enjoyed building it, but hardly ever use it - someone else can make better use of it for \$700 shipped.

Cheers es 72,
Dave Fifield

Date: Mon, 21 Aug 2000 22:43:08 -0400
From: radioham@home.com
To: qrp-l@Lehigh.EDU
Subject: [77837] FS - Ten Tec 509

Message-ID: <3.0.6.32.20000821224308.007aee50@24.2.2.70>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Time for more thinning of the shack.

Classic Ten Tec Argonaut 509 in very good shape physically and electronically with original knobs, microphone (not original) and manual. Output of between 2 and 3 watts on CW and SSB on 80 - 10 meters, no WARC. For a good picture of one see W8KC's page at <http://www.oakland.edu/~prvalko/509sta-1.jpg> (I only have the rig).

I have made many contacts with this rig and have enjoyed using it, but it is time for me to move on (to a K-2 :-)). I know I'll regret this, but too many rigs. More for sale in future weeks.

\$300.00 shipped in Conus.

72/73,

Steve, N4EUK
Reston, VA

Date: Mon, 21 Aug 2000 20:10:46 -0700
From: Dave Fifield <fifield@pacbell.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [77838] FS: Elecraft K2
Message-ID: <005a01c00be6\$911db240\$0100a8c0@pacbell.net>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

For Sale: My serial #625 Elecraft K2 with SSB, Internal Battery and Noise Blanker options. Nice condition.

Fully built and working portable QRP all bander built with care, setup and measured on proper lab equipment.

Some screws on underside of rig converted to countersunk (a small and successful experiment).

Inductor mod done to get rid of the key clicks in the audio.

TX output transistor mountings modified to remove thermally deformed plastic spacers.

Manual/mod docs and a few other bits included.

Kenwood MC-43S microphone included.

Moving house, need to make space - I enjoyed building it,
but hardly ever use it - someone else can make better use
of it.

\$700 shipped conus.

Cheers es 72,
Dave Fifield
AD6A

(better text spacing this time...)

Date: Mon, 21 Aug 2000 20:52:09 -0700
From: Dan Tayloe <dtayloe@home.com>
To: qrp-1@Lehigh.EDU
Subject: [77839] Re: QRP Homebrew Question
Message-ID: <39A1F8E9.EEA21AEB@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

This design is intended to use only fundamental frequencies.

If I were you, I would skip the crystal osc. part of this and
instead use one of the Epson SG-8002 programable clock osc chips
from Digikey to drive the thing.

For \$3.33 each Digikey will program the part with a frequency of
your choice. For that price, (and a \$5 penalty for orders under \$25)
order *both* 15m and 18m cw frequencies (buy some for your friends!)
and use the same 15m low pass filter for both bands.

Digikey part number: SG-8002DBPHB-ND and specify the frequency.

- Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

Date: Tue, 22 Aug 2000 00:27:59 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [77840] Re: "2 X QRP QSO" Stickers, Where?
Message-ID: <Pine.BSF.4.21.0008220008150.94744-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

The "2 X QRP" Stickers came from the G-QRP Club. The Older ones were Bright Yellow with Red Lettering. The story behind them is this. One of the G-QRP members owned/owns a recording company. They did labels for Cassette tapes, Rather than Waste the "Holes of the Donuts", they Printed "2 X QRP" on the holes. It looks like the new ones are Black Lettering on Gold with Club LOGO.

(I guess my Old Yellow ones are now Collectors Items :^)

Extracted from Page 7 of SPRAT, The Journal of the G QRP Club, Issue #103, SUMMER 2000.

Two Way QRP QSL Laabels and Blank G-QRP QSL Cards

QRP Labels: Black Lettering on Gold with Club Logo: 200 labels L2. Post inc.

Blank QSL Cards: You complete your address and call. Blue lettering on white card, 5.5' X 3.5'. 100 cards L4, post inc.

Sample from: M.L. Prickett [Max] G3BSK, 260 Haslucks Green Road, Solihull, West Midlands. B90 2LR.
Cheques; "M.L. Prickett"[The G QRP Club benefits from each order].

Also see <<http://www.gqrp.com>> and
<<http://www.btinternet.com/~g4wif/gqrp.htm>>

Sir George, The First :^)

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Notary Public and Locksmith Services
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301)572-6789
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Date: Tue, 22 Aug 2000 14:33:47 +1000
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
To: Flying Pigs <fpqrp@egroups.com>, GQRP <qrp@onelist.com>,
"glowbugs@piobaire.mines.uidaho.edu" <glowbugs@piobaire.mines.uidaho.edu>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, SOC
<secondclassopsclub@egroups.com>
Subject: [77841] OT: Probable boring News
Message-ID: <39A202AB.5C0BA5CA@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

FWIW my new site now carries on the main page each day a fresh "ask Dr.
Tech." comic for the technically challenged. It is renewed each day.

<http://www.electronics-tutorials.com/>

72/73's

Ian Purdie Budgewoi N.S.W. Australia - Co-ords S33 14', E151 34'
My FREE Newsletter: <http://www.electronics-tutorials.com/subscribe.htm>
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 FP#91
URL - <http://www.electronics-tutorials.com/>

Date: Mon, 21 Aug 2000 22:06:26 -0700
From: Dan Tayloe <dtayloe@home.com>
To: "Robert P. Okas" <vintage@best.com>, qrp-l <qrp-l@Lehigh.EDU>
Subject: [77842] Re: QRP Homebrew Question
Message-ID: <39A20A52.83C61FFE@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Higher noise level is fine for QRP TX power levels. However, I don't
think it would make a good RX LO. The difference is that on TX, you
are worried about things 40 db down or so, with RX, you would like to
see things down a lot more than that!

- Dan, N7VE

"Robert P. Okas" wrote:

>
> Hi Dan,
>
> I haven't purchased those devices myself, but I understand that
> they're PLL based and don't have the greatest close-in phase noise specs.
> Thoughts?
>
> 73,
> Bob - W3CD
> One pickers @ Tuthill
>
> On Mon, 21 Aug 2000, Dan Tayloe wrote:
>
> > This design is intended to use only fundamental frequencies.
> >
> > If I were you, I would skip the crystal osc. part of this and
> > instead use one of the Epson SG-8002 programable clock osc chips
> > from Digikey to drive the thing.
> >
> > For \$3.33 each Digikey will program the part with a frequency of
> > your choice. For that price, (and a \$5 penalty for orders under \$25)
> > order *both* 15m and 18m cw frequencies (buy some for your friends!)
> > and use the same 15m low pass filter for both bands.
> >
> > Digikey part number: SG-8002DBPHB-ND and specify the frequency.
> >
> > - Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions
> >

Date: Tue, 22 Aug 2000 02:22:18 -0400
From: Bill Lazure <n2tpa@juno.com>
To: qrp-l@lehigh.edu
Subject: [77843] Fw: antenna efficiency
Message-ID: <20000822.031309.-179403.0.n2tpa@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Folks,

A couple of weeks ago I asked how to determine actual antenna efficiency. This answer was SO good that I felt it had to be reposted (with permission) here:

----- Forwarded message -----

From: "Dan Wanchic" <wa8vzq@cloudnet.com>

To: "Bill Lazure" <n2tpa@juno.com>

I am no great expert but I will give you some idea of how I estimate antenna efficiency for each particular application. I've been in ham radio since the 60's & am an electronics technician working the the RF field since 1970 (no pun intended).

Of course the general equation for antenna efficiency is: $\text{efficiency} = 100 \times R_r / (R_r + R_d)$

Where R_r is the antennas radiation resistance and R_d is the antennas loss resistance. Obviously if R_r is large and R_d is small, efficiency is higher.

This is one of the reasons that larger antennas - even a dipole is more efficient than a short antenna like a mobile whip. The dipole has a fairly high radiation resistance compared to a low loss resistance. A mobile antenna on the other hand has a very low radiation resistance and a fairly high loss resistance. Efficiencies for dipoles - by themselves as an antenna are in the 90% range while mobile whips depending upon the band are in the low single digits to the mid teens for 75 meters. Generally, the higher the frequency the higher the efficiency of the mobile antenna. But as you will see, I think that there is a lot more involved than just the antenna, I like to consider the entire picture.

I will first say that I don't believe that it is possible to measure antenna efficiency without having very carefully controlled conditions. Generally speaking, about 99.9% of hams are not going to have those types of conditions - they don't live near an antenna test range, they can't accurately measure the field strength in all directions etc.

As far as I am concerned, the best that we can do is to get as clear of a picture as we possibly can of our own particular circumstances and then make some estimates from that point forward. Those fellows & gals who make wild claims about how efficient their antennas are - I think what they really mean is that it works good - and they don't know how to otherwise quantify it so they throw out some wild numbers that sound good but for the most part they are completely unsupportable.

Same thing goes for SWR claims, using antenna analyzers etc - the greatest portion of the time there is a lot of smoke and mirrors being used, data being misinterpreted etc. But without digressing too far I'll give you some clearer specific - from my perspective of course

First, I consider the entire system from transmitter to antenna as one whole mess - i.e. coax type, loss per ft & amount of SWR presented by the antenna and the type of impedance matching being used.

1. measure the length of coax between the transmitter & the antenna, use the manufacturers data to calculate how much coax loss you have in the line at the operating frequency
2. measure the SWR at the antenna or if you can't do so - measure at the feed point and estimate what it truly is at the antenna. As an example - using fictitious numbers but you'll get the point.

Your system has 100 ft of RG-xxx coax for your 10 meter dipole. The manufacturers data says that the loss is 3 dB per 100 feet @ 30 MHz. Since 10 Meters is close to 30 MHz estimate your loss to be about 3 dB

Your rig puts out 25 watts and you measure 25 watts forward and .7 watt reflected at the freq where reflected power is the lowest. The calculated SWR at the feed point is 1.4:1

Since you have 3 dB of line loss, the reflected power at the feed point

is 3 dB
lower than it is at the antenna. That means that you have 1.4 watts
reflected at
the antenna - it also means that only 12.5 watts of forward power is
reaching
the antenna.

Your SWR at the antenna is therefore about 2.0:1.

There is a chart in the ARRL antenna book that shows additional line loss
due to
SWR. This chart assumes that you are going to use a tuner or some other
means to
rereflect the reflected power back towards the antenna. From this chart
you can
determine that you have an additional .36 dB loss due to the SWR on the
line.

Your total line loss is 3.36 dB therefore of the 25 watts from your
transmitter
about 11.8 watts is being dissipated in the antenna. Notice that I said
dissipated not necessarily radiated - some will radiate and some will be
lost in
ohmic losses in the antenna

At this point though we can take a break and calculate that our
efficiency so
far is less than 50% - actually about 47.4% - take 3.36 dB and divide by
10 then
take anti-log of that which gives you -.4737 then multiply by 100 for
percent

Obviously the best thing that we can do to raise efficiency at this point
is to
cut our line losses by using a better grade of coax or a shorter run or
some
combination.

Speaking of tuners, my basic premise has always been to avoid a tuner
where
possible. I know that this runs contrary to how a lot of fellows operate.
Since
all tuners have loss one needs to carefully evaluate what they have to
gain
versus what they have to lose when using a tuner, especially when
operating at
low power levels. I think that as an example, the practice of using a
tuner on a

naturally resonant 40 meter dipole is a waste of money and power. There was an article in QST a few years back which evaluated tuner efficiency and it should have been quite an eye opener, especially to the QRP community.

One other point relative to the discussion is in regard to how many dB does our signal have to change before we can hear the change. There are a lot of wild assumptions out there, especially built around the fact that the human ear's response follows a logarithmic curve. It is absolutely true that when the signal is large enough a large dB change will not be noticeable especially if the receiver has sufficient sensitivity and good AGC.

But notice that I said if the signal is large enough. Let's make the assumption that the received signal is about 10 microvolts or -87 dBm. A signal strength fade of 6 dB, which is one S unit, reduces the signal to 5 microvolts which is still plainly audible in even very simple receivers. If the receiver has an amplified AGC circuit then there will be no change in level at the receivers output. If simple AGC or audio derived AGC is in use then there could be some slight change in level.

But what happens if the signal is already very weak, say one tenth of a microvolt or -127 dBm. First of all, in a good receiver AGC is disabled at this low of a level. This is because AGC should only limit strong signals not weak ones. More importantly a 6 dB fade at this level can easily put the received signal below the receivers ability to detect it.

Very often what we will find is that when received signals approach the receivers sensitivity limit, the receiver response is not as linear as we would like to believe. I have performed very careful experiments with a number of receivers and have found that more often than not a 1 dB change in signal level

can cause a several dB change in receiver output (even on receivers with no AGC which should have linear response). While it could be argued that this shouldn't happen, the fact is that it does.

Second, I consider the construction of the antenna itself - i.e. type of antenna and the materials it is made of -

Let's consider that you are using a dipole. The radiation resistance of a dipole is in the vicinity of 70 ohms. The impedance at the feed point depends upon how the surrounding terrain affects it. There is another chart in the ARRL Antenna Handbook or the Amateurs Handbook that shows how the impedance varies as the height is varied above ground.

What type of wire is used in the dipole? Is it #12 copper, #14 aluminum clothes line or #28 magnetic wire etc. They all have different resistance losses that need to fit into the equation of efficiency. Keep in mind that the ohms/foot values given in the handbook is at DC. That value goes up with frequency.

Make a quick assumption that your #12 copper wire has about 1 ohm of resistance, just for argument sake. The radiation resistance of your antenna is about 70 ohms. The antenna is a series circuit consisting of the 70 ohms and the 1 ohm. So the power delivered to the antenna is divided between the two resistances.

Radiated power is now $11.8 \times 70/71$ or 11.63 watts - 166 milliwatts is lost in the 1 ohm of wire resistance. Obviously if you were using #28 wire you would not get out as well because of the higher loss. It will still work, just not quite as well. Your efficiency is now $47.4\% \times 70/71$ or 46.7%.

Keep in mind that in general, antennas with lower radiation resistances are more difficult to make efficient because of the ohmic losses - that's one

reason why
mobile HF stations are weaker - they radiate less power because their
antennas
are less efficient.

We already know that the SWR at the feed point is about 2:1 at the
resonant
frequency - so the terminal impedance is either 100 ohms or 25 ohms to
give a
2:1 SWR. The variation is being caused by reflections of the radiated
signal
from the ground. How high is the antenna above ground? Does that
correspond to
the chart? Can you determine if the resistance is 100 ohms or 25 ohms?

You can measure it directly with some antenna analyzers - just keep in
mind that
the length of the feed line will affect what you read.

Also consider that there is no such thing as a one size fits all antenna.
Every
antenna has pro's and con's and every ham needs to evaluate what works
best for
their type of operating and their budget. Using myself as an example, I
have 20
foot long loaded dipoles tucked away in the rafters of my garage for 40,
30 20 &
15 meters. Using the word efficient with a loaded dipole is almost a
sacrilege.
They're not the greatest in the world but they work, people hear me and I
hear
them.

Third, I consider how the surrounding terrain affects the antennas
theoretical
performance - i.e. height above ground, type of terrain, surrounding
structures
etc

Your dipole is mounted 25 feet above a asphalt parking lot. That is not
nearly
as good of a reflector as being 25 feet above the water by the ocean.
That's one
reason that the FL hams have better signals in general than the KS hams
or the
NV hams. Once again, we want to be able to recover any signal that hits
the
ground (or water) and reflect it towards the other operator.

Also the lower the frequency, the more the penetration into the earth - the more potential for loss if depending upon your soil type. Again, this affects your overall efficiency but it is difficult to quantify.

Try to determine the type of soil in your area - once again, charts in the various handbooks allow us to estimate what type of conditions we have to work with. Consider how the height above ground affects the lobes of maximum radiation. Evaluate how the type of soil affects the real take off angle from your antenna.

What I mean by this is that the phenomena known as the pseudo-Brewster angle affects the low angle radiation from your antenna. This angle is a function of soil type and frequency and can be a significant factor in how your signal radiate. If you determine that you need a 10 degree takeoff angle but your soil type prevents good radiation below 15 degrees this is something that you keep in mind. Again, one of the benefits of living near salt water, the pseudo-Brewster angle is very, very low. Notice that I said salt water - not fresh water, that's a horse of a different color.

If you are trying to work DX then a low antenna is probably not going to be the best due to the higher takeoff angle of the radiation - the best antenna in the world is no good if the other station is located in one of your nulls - vertical null or horizontal null.

The higher the better rule really only applies to VHF & UHF when going to farther line of sight. At HF frequencies height has a lot more to do with take off angle, absorption from surroundings and stability in all weather conditions. The higher off ground, the more stable because ground reflections are weaker by the time they get reflected. Snow depth also affects take off angle & repeatability.

Fourth, I consider the type of propagation that is intended to be used - ground wave, skywave, NVIS etc and the intended target area

If you are planning on ground wave - 160 & 75 meters - use a vertical - ground waves are shorted to ground when horizontally polarized - that's why broadcast stations use vertical, not as much as the need for omnidirectional radiation, after all many AM stations are directional.

If you are planning for NVIS - generally keep in mind fairly low but not on the ground. Look once again at the charts for height above ground vs radiation pattern AND take into account the type of terrain around you. If you have poor soil, consider using a counterpoise. Keep in mind that if the ground absorbs your signal and doesn't give it back, you aren't going very far on NVIS (notice the size of the lobes of very low to the ground antennas in the ARRL Antenna Handbook).

I operated in the Canal Zone for some time - jungle is very unforgiving terrain, you can't count on recovering much ground reflection, verticals were useless even below 4 MHz, every antenna needed a counter-poise. Poor soil also affects the reflection gain and the depth of nulls.

If you are trying to work a certain location, besides knowing the intended azimuth, try to estimate the distance & the number of hops for F layer propagation. Then determine the best angle for antenna radiation - which affects height above ground. It is possible to hop right over the intended target area if the angle is wrong.

I hope this gave you some idea of what I recommend. It is not necessarily a clean cut process and the term efficiency can be loosely interpreted many ways.

If you are interested, I wrote a short essay on mobile antennas that addresses efficiency in some parts. I would be glad to send your way. It is a Word document.

If you have any questions, I'll be glad to answer. wa8vzq@cloudnet.com

Regards

Dan Wanchic
St. Cloud, MN

-- -- -- -- -- WA8VZQ since 1967 -- -- -- -- --
Federal Aviation Administration -- -- Electronics Technician
ex-Nuclear Emergency Search Team (NEST) 1977 - 1981
-- -- -- NEST Three Mile Island Response Team -- -- --
-- -- -- ex-ACA-15, WAR-30, KAL-24, KZ5VZ -- -- --

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 22 Aug 2000 01:30:15 -0700
From: Radman <radman@best.com>
To: "'elecraft@qth.net'" <elecraft@qth.net>, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [77844] Yaesu's 'K2' ... ?
Message-ID: <01C00BD8.8978A300@radman.vip.best.com>

Yaesu's 'K2' ...?

At Yokohama's Ham Fair 2000 last week, Standard-Yaesu unveiled their

super-mini QRP FT-817. This 160m - 7cm, all-mode transceiver is packed into a case one-third the volume of Kenwood's TS-50S and edges-out Elecraft's K1 by ~ 12 cubic inches! This thing is really small! It weighs 1.96 pounds and remarkably contains an *internal* battery pack - AA alkalines or NiCds -- no word on an internal ATU.

The pregnant question (on QRP-L) is - "What's the RX current?" The answer is, "I don't know!" I do have an educated guess - less than 500 mA. True -- that's over twice the RX requirements of Elecraft's K2, at least 100 mA greater than the SGC's 2020 and only 100 mA less than the long-toothed Ten-Tec Scout. Yet, common sense suggests the Yaesu engineers will minimally squeeze three hours of "up-time" with a 90%-10% -- RX/ TX profile, running off the internal pack. Need more time? Just pack another battery.

With band-coverage of HF, 6m, 2m, 70cm, including general coverage of 0.1 - 30MHz and 76-108MHz - WFM, the primary difference between the FT-817 and its bigger brother, the FT-100D, is package-size and RF power. So, that leads us to price. The rig will launch in JA at an estimated US\$1100, but when it lands in the US (Dec time-frame) my crystal ball says US\$699 - the street price for the FT-100 is only \$979 for the 100W version - so a QRP version should be down-priced in the US.

Cool stuff: This rig has two antenna jacks - a BNC on the front panel for VHF/UHF, and an HF jack (probably SO-239) on the rear panel - so you could have a whip/duck on the front panel and an HF coax feeder on the rear - simultaneously! You can "shoulder-carry" the rig for VHF/UHF work for emergency/search/rescue by using the optional shoulder strap, speaker/mic and a duck/whip antenna.

When it's time to do some HF QRP field work, the front duck antenna comes off (for ease of control access) and you have a shrunken FT-100 sort-of interface. Smallish LCD, nice main tuning knob and an array of menu buttons/LEDs that may take a bit of agility to navigate. Top-firing speaker? Yep! And reportedly... big audio, too! The *real* mic plugs into the right side of the main case, instead of the front panel - freeing up precious space on a rig that's only 1.5" high. You can also use a speaker/mic in lieu of the real mic. Naturally there's a key jack & headphone jack as well as a 13.8VDC terminal on the rear panel.

Preliminary Specs:

Modes: CW, USB, LSB, AM, FM-W, FM-N.

Output Power: 5W(SSB, CW, FM), 1.5W(AM) @13.8VDC or 2.5W(SSB, CW, FM), 1.5W(AM) @12VDC or 9.6VDC

Packet connector: 1200bps, 9600bps

Antenna connector: BNC - front panel, SO-239 - rear panel

Dimensions: 5.31 in (W) x 1.5 in (H) x 6.5 in (D)

Weight: 1.96 pounds.

Accessories: Hand MIC, 6m/2m/7cm whip ANT, Shoulder strap.

Band coverage:

0.1-30MHz general receive, including WFM RX on 76-108MHz. Transceive on HF (160m-10m), 6m, 2m and 70cm

Executive summary: I really like this rig! If Yaesu manages to contain the RX current AND deliver a decent receiver, they'll sell a wad of these 817's. I built a cardboard model of this rig and ballasted the model to match specs - it's very well done! But the final votes are still out! If this 817 draws 1A on RX they aren't gettin' my Visa card ;) Stay tuned !

73,

Conrad Weiss - NN6CW - not related to Yaesu-Standard or anybody else ...

Date: Tue, 22 Aug 2000 06:24:30 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [77845] Mailing to Canada
Message-ID: <Pine.LNX.4.10.10008220618110.1402-100000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

For some reason it takes a special form to mail a package to Canada, and it's more expensive. The special form has my signature 2 places and my address and the address it's going to.

I was in a line mailing Argonaut kits and this came up. The people behind me were not amused. I looked and these Canadian forms are out in the forms bins so next time I will fill it out and then get in line.

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 22 Aug 2000 06:33:29 -0600 (MDT)

From: "Karl F. Larsen" <k5di@zianet.com>
To: Dan Tayloe <dtayloe@home.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [77846] Re: QRP Homebrew Question
Message-ID: <Pine.LNX.4.10.10008220630190.1402-100000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Dan, where can I find a data sheet on the Epson SG-8002? Would you say these are real cheap crystals? I gather you apply 5 vdc and they come alive. Is it stability that precludes harmonic use?

On Mon, 21 Aug 2000, Dan Tayloe wrote:

> This design is intended to use only fundamental frequencies.
>
> If I were you, I would skip the crystal osc. part of this and
> instead use one of the Epson SG-8002 programable clock osc chips
> from Digikey to drive the thing.
>
> For \$3.33 each Digikey will program the part with a frequency of
> your choice. For that price, (and a \$5 penalty for orders under \$25)
> order *both* 15m and 18m cw frequencies (buy some for your friends!)
> and use the same 15m low pass filter for both bands.
>
> Digikey part number: SG-8002DBPHB-ND and specify the frequency.
>
> - Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions
>
>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 22 Aug 2000 08:44:36 -0400
From: Frank Alwine <n1gpy@together.net>
To: qrp-1@Lehigh.EDU
Subject: [77847] Re: Yaesu's 'K2' ... Photos
Message-ID: <39A275B4.B8B24611@together.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

XE1KK has photo's he took of the FT817 at his web site:

<http://www.avantel.net/~ramsan/XE1KK/Ft-817/ft-817.htm>

Links to the photo's are about halfway down the page...

72, de Frank KT1VT

Date: Tue, 22 Aug 2000 08:50:21 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [77848] Re: QRP Homebrew Question
Message-ID: <002a01c00c37\$8b46c720\$2d0a05cc@rochester.com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

> Hi Dan, where can I find a data sheet on the Epson SG-8002? Would you say
> these are real cheap crystals? I gather you apply 5 vdc and they come
> alive. Is it stability that precludes harmonic use?

Karl,

Digi-Key sells the SG-8002, and they have most of the data you need in their catalog. (It's online, too, but you'll need the Adobe Acrobat reader.) It's actually a fixed-frequency oscillator module in various surface-mount and DIP packages. They run at 5 volts like other digital oscillator modules, and are available with CMOS or TTL compatible outputs. You specify a frequency when you order it, and Digi-Key programs it into a generic module and ships it to you.

Since these are oscillators and not crystals, they don't lend themselves to harmonic operation. They -could- be followed by a frequency tripler, though. But unless you want dual-band operation from a single device, there's no benefit. They're available with frequencies up to 125 MHz depending on the temperature range and stability specs you want, and the stability is either +/- 50ppm or +/- 100ppm (with no price difference) at any operating frequency.

I've been searching Epson's Web site looking for specs on how to program the operating frequency - it'd be nice to have a stock of unprogrammed parts and be able to select a frequency when the urge strikes. If anyone comes up with the info, please let me know!

As Dan pointed out, these are PLL-based, so there is phase noise at the output. Also, there would be some minimum increment in available frequency -

I'm not sure what it is, but I believe it's fairly coarse, like in the kHz or tens of kHz range.

I think there's a worksheet on either the Digi-Key or Epson Web site that lets you enter a frequency and it'll tell you if it's available. If I can locate it I'll post the URL here (unless someone beats me to it).

Dave

P.S. Here's the Digi-Key catalog page with the specs & prices:

<http://www.digikey.com/EC/V3/267.pdf>

D.

Date: Tue, 22 Aug 2000 09:02:58 -0400
From: "John J. McDonough" <wb8rcr@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [77849] Re: QRP Homebrew Question
Message-ID: <006301c00c39\$4cfea580\$010044c0@Conor.baycty1.mi.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Epson's spec sheet shows frequencies to 100Hz, even in the 50MHz range, although nowhere on the spec sheet can I find an indication of the resolution to which the frequency can be specified. Shortly I expect to order some oscillators 700Hz apart, so we'll find out!

I do have a little receiver based on one of these puppies and it's not bad. Might be an issue on 40, tho!

Someplace (Epson maybe?) I saw a programmer for these things, it's real expensive. Nowhere on Epson's site did I find information on programming them, tho. To this part of the country, DigiKey's delivery is real good, so it's not so much of an issue.

72/73 de WB8RCR <http://members.home.com/wb8rcr/index.htm>
didileydadidah QRP-L #1446 Code Warriors #35

-----Original Message-----

From: David Hinerman <dlh1009@ritvax.isc.rit.edu>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Date: Tuesday, August 22, 2000 8:51 AM
Subject: Re: QRP Homebrew Question

Date: Tue, 22 Aug 2000 09:58:44 -0300
From: Dave Marling <dbm@klis.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [77850] Re: Mailing to Canada
Message-ID: <39A27904.B36C57F1@klis.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

> For some reason it takes a special form to mail a package to
> Canada, and it's more expensive. The special form has my signature 2

That's cause we're special up here :)

It's probably a custom's declaration form so the Canadian government can see if the value is sufficient to skim some duty or sales tax. A lot of times the package comes without any added tax if the item value is small. Most things now duty free under the North American Free Trade Agreement (NAFTA) and are only subject to federal and provincial sales taxes. As Canadians we pay the charges at the post office.

And of course it costs more to send something across the border.

Fifty years ago the Canadian dollar was worth about 10% more than the US buck. Unfortunately, the CDN\$ is now sitting around \$0.67US and after the banks take a cut a US\$ costs us \$1.50CDN.

Dave
VE1VQ

Date: Tue, 22 Aug 2000 09:07:01 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-1 <qrp-1@Lehigh.EDU>
Subject: [77851] follow-up on SG-8002 oscillators

Message-ID: <003601c00c39\$dc936410\$2d0a05cc@rochester.com>

MIME-version: 1.0

Content-type: text/plain; charset=iso-8859-1

Content-transfer-encoding: 7BIT

Homebrewers,

Here's more info on the programmable oscillator.

Epson America's online data sheet:

http://www.epson.co.jp/device/doclist/crystale/c_osci/sg8002db.pdf

Epson Japan's data, plus an online form for specifying package, temperature range, output type, and frequency:

<http://www.epson.co.jp/CRYSTAL/> - select the blue arrow in the table next to the SG-8002 entries. It'll ask you to register, then take you to the specification form. You can enter a frequency and it'll tell you if it can be programmed or not, as well as the exact part number for the options you want.

I tried a bunch of sample frequencies in the HF range, and it seems the parts have a 1 Hz resolution.

Dave

David Hinerman WD8CIV
Ontario, NY Grid FN13IF
dlh1009@rit.edu

Date: Tue, 22 Aug 2000 06:12:11 -0700
From: Mike <mparkes@att.net>
To: qrp-1@Lehigh.EDU
Subject: [77852] QRP groups in Spokane?
Message-ID: <v04003a00b5c82c2f3506@[12.73.161.252]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Wondered if there are any inland Northwest members on the list that are aware of any QRP clubs or such around the Spokane/Coeur d'Alene area?

Thanks

Mike AB7RU

Newman Lake, WA

Date: Tue, 22 Aug 2000 09:17:27 -0400
From: David Hinerman <dlh1009@ritvax.isc.rit.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [77853] Re: follow-up on SG-8002 oscillators
Message-ID: <004101c00c3b\$51829510\$2d0a05cc@rochester.com>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Folks,

Another note on the oscillator modules:

- 1) They have an output enable / standby pin (pin assignment is programmed) - the output enable apparently disables the output (duh) while standby shuts down the internal oscillator too.
- 2) Low power they AIN'T - the 5 volt parts draw 45 mA with the output enabled, 30 mA when output enable is off. In standby they draw 50 uA. Startup is 10 ms (which I presume applies to power-up as well as releasing standby).

Dave

David Hinerman WD8CIV
Ontario, NY Grid FN13IF
dlh1009@rit.edu

Date: Tue, 22 Aug 2000 09:21:29 -0400
From: Rick Sealey <rsealey@InfoAve.Net>
To: qrp-l@lehigh.edu
Subject: [77854] Re: QRP Power (formerly Anybody Seen a PiG?)
Message-ID: <4.1.20000822083202.00975a40@mail.infoave.net>
MIME-version: 1.0
Content-type: text/plain; charset="us-ascii"

Huh?

Alex, you must be getting a different version of QST than me. Actually, over the last several years I've noticed considerable improvement in its technical content, and recently, especially as related to the subject of QRP.

A few months ago, after also generally feeling that QST was not as strong in this area, I sat for several hours in my garage, thumbing through my old issues from the 60's, 70's, and 80's. I was quite surprised to find, in a broad scope, there is at least as much technical information now as then. As for Rich Arland's column, he stated from the get-go that it wasn't intended to be technically deep, but more suitable for newcomers. I think he's hitting that target pretty well.

Fortunately for those of us who are looking for a little more "meat", we've got a lot of great publications available, such as QQ from ARCI, QRPP from NORCAL, QRP Homebrewer from NJQRP, Low Down from Col. QRP, SPRAT from G-QRP, and many others. Then there's the Internet with the ARS Sojourner available on-line, plus at least a blue-million related great web sites, email reflectors and forums. Heck, I can't find time to read it all, now.

I'm glad for Rich's column, interesting and maybe less intimidating for the less experienced. Seems to me to fill a niche otherwise ignored.

Rick - W4SEA

At 12:58 PM 8/21/00 -0400, you wrote:

>

>The latest issue of QST (September) came over the weekend, and I see that
>the "QRP Power" column is still a pathetic waste of a page!

----- SNIP -----

>I'm so-o-o glad I've kept my old QSTs from the 1960s and '70s, when REAL
>articles about QRP circuits were plentiful, and highly useful, as well as
>entertaining, instead of this dumbed-down type of drivel that passes for
>technical editorial! Ugh.

>

>No wonder ham radio appears to be diminshing in its perceived value in many
>public quarters.

>

>Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

Date: Tue, 22 Aug 2000 09:25:52 -0400

From: Bruce Muscolino <w6toy@erols.com>

To: pgerhardt@hotmail.com

Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [77855] Re: Yaesu QRP Rig Rumor
Message-ID: <39A27F60.768C@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Paul, and the group,

I see there is a lot of interest in another nasty old commercial radio for QRP use. After all the hoopla about single band radios is the industry beginning to realize there is perhaps some value to a multi-mode, multi-band radio? Note I am not knocking the K2, which is a really good response to the idea.

The fact is that the Japanese manufacturers used to all produce low power versions of their radios. Their novice license had a maximum power output of around 10 watts PEP. The Kenwood TS120 and TS130V series radios came from this. Yaesu sold the FT-7 and the FT-301D series radios.

What stopped their importation? Mostly lack of interest in the rest of the world. We should learn from our past mistakes and if Yaesu does, in fact, import another QRP version, give it a real chance! I have both the FT301D and the TS130V. They are fully the equal of any pre-DSP radios, with filtering equal to the big boys because it is the same!

73

Date: Tue, 22 Aug 2000 09:41:23 -0400
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [77856] Re: VHF SSB QRP
Message-ID: <125490A005E3D3118C9C00805FC743CC8D9BDF@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

What awards are you attempting? I don't recall any VHF awards that can be endorsed for QRP endorsement, though I have suggested that ARCI offer a VHF award based on grid squares. But, it's not that big of a deal--I'm not interested in being the ARCI VHF awards manager.

You could get WAS-QRP, but it is quite a challenge at VHF. The ARRL will

endorse it for
QRP if you run 5 watts PEP
<http://www.arrl.org/awards/was/>

If you run 10W PEP on SSB, ARCI will still issue an award.

CQ magazine defines QRP as 25 watts or less in their VHF contest, but I don't know if any CQ awards can be done with VHF QRP. WAZ on 6M?

However, I think it is foolish to work on difficult awards without first getting the official rules from the sponsors. As well as any clarifications on what they consider QRP, or if they even have a QRP endorsement available.

73--Zack W1VT

Date: Tue, 22 Aug 2000 09:57:27 -0400
From: Bill Coleman AA4LR <aa4lr@radio.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [77857] Re: Oscilloscope bandwidth
Message-ID: <1000722095726.JAA10788@gate.iterated.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 8/21/00 5:09 PM, Gregory Lawrence at gwl1@cornell.edu wrote:

>Can someone explain oscilloscope bandwidth? I recently heard some chat
>about a 40 MHz oscilloscope with a 5 MHz bandwidth on the local swap-net. I
>had always assumed that the rated MHz was the bandwidth.

You were correct. A 40 MHz scope has a 40 MHz bandwidth, at least to some rated point. (I don't remember if it is -1 dB or -3 dB) Naturally, it doesn't cease to provide vertical output above 40 MHz, but the response drops off at higher frequencies.

A "40 MHz" scope with a 5 MHz bandwidth is a 5 MHz scope.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@radio.org
Quote: "Boot, you transistorized tormentor! Boot!"
 -- Archibald Asparagus, VeggieTales

Date: Tue, 22 Aug 2000 10:02:38 -0400
From: "Brian" <brian@iquest.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [77858] CD based Tomes
Message-ID: <000701c00c41\$a133ada0\$3d05080a@cincom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Is the SPRAT collection on CD still available?

Has the QRPp collection ever been offered on CD ROM?

=====
KB9BVN/QRP - New Whiteland IN - EM69WN
QRP-ARCI #10223 QRP-L #1540 FIST #5695
FISTS CC #764 - Proud Member ARRL
TEN TEC SCOUT @ 5W or NORCAL 40a @ 1.3W
INTO INFAMOUS AF4PS ATTIC DIPOLE
=====

Date: Tue, 22 Aug 2000 10:10:53 -0400
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [77859] RE: Anybody Seen a PiG?
Message-ID: <125490A005E3D3118C9C00805FC743CCB2C36B@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

> The latest issue of QST (September) came over the weekend,
> and I see that the "QRP Power" column is still a pathetic
> waste of a page!

The QRP columns in QST and on the ARRL Web Extra are specifically intended to emphasize the fun of operating QRP. I think they do that pretty well. What they are doing for QRP is getting QRP up front to "mainstream" ham radio and letting a lot of otherwise-QRO operators know that they can do a lot of very enjoyable operating with QRP. At one page per issue, that is ALL they can expect to cover. The columns do not take the place of the occasional QRP construction article; those will continue to appear regularly in QST, as they have for decades. Neither the columns or QST take the place of the QRP magazines *devoted* to QRP; the QRP Quarterly will always be a better QRP magazine than QST. But the columns do fulfill their intended

purpose and they do help promote QRP within amateur radio. Is that not a better goal than trying to do a 1-page QRP Quarterly?

> and later discusses a voltage divider, but NEVER includes a schematic
> or even a portion of the schematic that pertains to his description.

I guess he assumed that most hams would understand what a voltage divider is. :-)

> Worse, he indicates the reference designations for two resistors in
> question, which is worthless information--and a waste of column space
> --if I don't have a schematic with the story.

I agree, about 0.02% of the column was wasted by the two resistor references for those who were not interested enough in that section of the column to go to the noga website and download the schematic.

> I'm so-o-o glad I've kept my old QSTs from the 1960s and
> '70s, when REAL articles about QRP circuits were plentiful,
> and highly useful, as well as entertaining, instead of this
> dumbed-down type of drivel that passes for technical editorial!
> Ugh.

The column was never promoted as technical editorial, Alex. Nor do I think it should be, because a 1-page mini-Quarterly truly WOULD be a waste of space. IMHO, QRP has been very well represented in QST, and that representation is increasing. Fortunately, most people have received that column very well, so its presence in QST will continue. I am sorry that you feel QST would be better off without a column that helps promote QRP to the non-QRP'er, but your view is a minority one amongst the QRP community, it appears.

(I will add that I, and the QST editors, would like to see more QRP construction projects. If you have one in the works, consider it for QST!)

> No wonder ham radio appears to be diminishing in its perceived
> value in many public quarters.

I think it quite a stretch to think that Rich's giving a URL link to a schematic instead of printing it in the column is responsible for ham radio's perceived diminished value. I like the column, Mark Wilson and Steve Ford like the column, from the feedback ARRL has received, most QRPers like and appreciate the column for what it is intended to be -- a nice way to promote the fun associated with operating QRP.

73,
Ed Hare, W1RFI

BTW, as to the 1960s/1970s, here are the articles that get a hit on QRP when I search the QST/QEX index. I stopped at 1990; there were a total of about 311 articles.

Aug 2000 QST 98 QRP WebSurf (<http://www.qrparci.org>) (QRP Power) Arland, Rich, K7SZ

Aug 2000 QST 98 A Wattmeter of Your Own (QRP Power) Arland, Rich, K7SZ

Jul 2000 QST 85 The QRP Commando Stealth Dipole (QRP Power) Arland, Rich, K7SZ

Jul 2000 QST 85 QRP WebSurf (QRP Power) Arland, Rich, K7SZ

Jul 2000 QST 28 The Micromountaineer Revisited White, Terry, K7TAU

May 2000 QST 87 QRP Kits: Ten-Tec; Heathkit; Kenwood, Yaesu; QRP WebSurf (QRP Power) Arland, Rich, K7SZ

Apr 2000 QST 107 Dayton QRP Banquet (Strays) Rosenfeld, Scott, N7JI

Apr 2000 QST 93 Three Cool Kits: Wilderness Radio NorCal-40A; Small Wonder 40+; Red Hot Radio NorCal-20 (QRP Power) Arland, Rich, K7SZ

Mar 2000 QST 91 QRP WebSurf (New Jersey QRP Club) (QRP Power) Arland, Rich, K7SZ

Mar 2000 QEX 59 "Four Days in May" 2000 QRP-ARCI Conference (Upcoming Technical Conferences)

Mar 2000 QST 53 The NB6M QRP Paddles McFee, Wayne, NB6M

Mar 2000 QST 43 A Simple 10-Meter QRP Transmitter Smith, Lew, N7KSB

Mar 2000 QST 37 The Tuna Tin 2 Today Hare, Ed, W1RFI

Mar 2000 QST 28 Cross-Country QRP Stuntz, Stephen, N0BF

Feb 2000 QST 90 Your QRP Elmer (QRP Power) Arland, Rich, K7SZ

Feb 2000 QST 19 qrp camping (Up Front) Hinkle, Chad, K06TT

Dec 1999 QST 66 "QRP Buddy" Display (Technical Correspondence) Larson, Kenton, KB0MEO

Aug 1999 QST 53 Milliwatting: A Radio Frontier You Can Explore Hale, Jim, KJ5TF

Jun 1999 QST 43 The QUICK: QRP Under Integrated Control from the Keyer
Kreuter, Rod, WA3ENK

May 1999 QST 45 The MFJ 9420D (D=Deluxe) (Construction/Projects) Salas,
Phil, AD5X

Apr 1999 QST 47 The QRP Buddy Aiello, Mike, N2HTT

Mar 1999 QEX 58 "Four Days in May" '99 QRP-ARCI Conference (Upcoming
Technical Conferences)

Dec 1998 QST 20 Two-meter QRP from a 2000-foot "tower" (Spencer Butte, OR)
(Up Front) Cooper, Doug, N7CNH

Oct 1998 QST 20 Time out for QRP (Up Front) , Will, N7NVV

Jun 1998 QST 28 QRP Field Day Survival Guide Arland, Richard H., K7SZ

Jun 1998 QST 19 QRP SSTV . . . (Up Front) Taggart, Ralph, WB8DQT

Mar 1998 QST 94 Three Named to QRP Hall of Fame (Doug Hendricks, KI6DS;
Dick Pascoe, G0BPS; Mike Czuhajewski, WA8MCQ) (Strays)

Mar 1998 QEX 60 "Four Days In May" '98 QRP-ARCI Conference (Upcoming
Technical Conferences)

Feb 1998 QST 20 Not your average radio. (Homebrew 40-m QRP) (Up Front)
Heusy, Fred, DJ3KK

Jan 1998 QST 20 Have QRP pack, will travel (Up Front) Arnold, R.J., K8RJA

Dec 1997 QST 58 HF QRP "Foxhunting" Mugleston, Brad, KB0ROL

Dec 1997 QST 58 Cartoon--George is in the shack.... goes with HF QRP
Foxhunting Beasley, Brian, K6BJH

Sep 1997 QST 120 Parts for the QRP Homebrewer (Strays) Buckeye
Electronics

Jun 1997 QST 19 Field Day 1996...At the WY8M QRP FD effort in Michigan...
(Up Front) Bates, Eric, AA8MD

May 1997 QST 24 Why QRP? A Response (Correspondence) Evans, Ken, W4DU

Apr 1997 QST 47 Ten-Tec QRP CW Transceiver Kits (T-kits models 1380, 1340.
1330 and 1320) (New Products)

Apr 1997 QST 29 A Single-Board QRP SSB Transceiver for 20 or 75 Meters
Benson, Dave, NN1G

Mar 1997 QST 24 Why QRP? (Correspondence) McLaughlin, Adam, KD6POC

Feb 1997 QST 74 Response to: A "Thump Killer" Modification for KK7B's CW
Transceiver (Fifield) (Hints and Kinks) Campbell, Rick, KK7B

Feb 1997 QST 74 A "Thump Killer" Modification for KK7B's CW Transceiver
(Hints and Kinks) Fifield, David, KQ6FR

Jan 1997 QST 51 The KC2 "Do Everything" QRP Accessory Kit from Wilderness
Radio (New Products)

Nov 1996 QST 31 Build a Power Attenuator Basilier, Erik, WU7O

Oct 1996 QST 112 New Books: Low Power Communications Vol 3 (QRP Hardware)
(by Richard Arland, K7YHA) Swanson, Glenn, KB1GW

Oct 1996 QST 112 Low power Communicaitons Vol 3 (QRP Hardware) (Arland)
(New Books)

Oct 1996 QST 87 I would like to get in touch with...owners of Tokyo
Hy-Power HT-750 QRP H-T (Strays) Sutton, Russ, W3MY

Oct 1996 QST 81 Happenings: In Brief (renew or join on-line; ARRL Int'l
Humanitarian award; New QRP book; "Newsline" celebrates newscast Lindquist,
Rick, KX4V

Sep 1996 QST 76 Feedback: A Small High-Performance CW Transceiver

Sep 1996 QST 68 Product Review: Index Laboratories New QRP Plus
Transceiver Newkirk, Dave, AK7M

Sep 1996 QST 39 Antenna Analyzer Tips, Tricks and Techniques: A QRP
Accessory Pack Roessler, John, KB6WB

Sep 1996 QST 20 When Jane, AA0ZR, instructs Denver-area hams in the art of
QRP... (Up Front) Feick, Larry, NF0Z

Aug 1996 QST 71 Physically Small Inductors May Lead to Unknown Losses
(Technical Correspondence) Michaels, Charles, W7XC

Jun 1996 QST 48 Low-Power Transceiver Kits You Can Build--Small Wonder
Labs Green Mountain 20 Lindquist, Rick, KX4V

Jun 1996 QST 47 Low-Power Transceiver Kits You Can Build--S&S Engineering
TAC-1 Lindquist, Rick, KX4V

Jun 1996 QST 46 Low-Power Transceiver Kits You Can Build--Gary Breed
Transceiver Lindquist, Rick, KX4V

Jun 1996 QST 45 Low-Power Transceiver Kits You Can Build--G-QRPClub GQ40
Lindquist, Rick, KX4V

Apr 1996 QST 67 Sierra QRP Transceiver Kit (New Products)

Mar 1996 QST 48 QRP Contesting Tips [sidebar to Low-Power Contesting]
Arland, Richard, K7YHA

Mar 1996 QST 48 QRP Clubs [sidebar to Low-Power Contesting] Arland,
Richard, K7YHA

Mar 1996 QST 47 Low-Power Contesting Arland, Richard H., K7YHA

Nov 1995 QST 41 A Small High-Performance CW Transceiver Campbell, Rick,
KK7B

Sep 1995 QST 66 Hard-Core QRP Arland, Richard H., K7YHA

Jul 1995 QST 14 QRP fro DU-land (Up Front) Sawyer, Bruce B., AA6KX

Jun 1995 QST 40 Build a Super-Simple SWR Indicator Brock-Fisher, Tony,
K1KP

Dec 1994 QST 86 To QRP, or Not to QRP? (Correspondence) Wiseman, Don,
K5CA

Dec 1994 QST 54 TechSonic ''Convertible'' QRP Transmitter Kits (TechSonic)
(New Products)

Nov 1994 QST 84 Experimental 1/2-W CW Transmitter, An (Hints and Kinks)
Smith, Lew, N7KSB

Nov 1994 QST 37 Single-Board Superhet QRP Transceiver for 40 or 30 Meters,
A Benson, Dave, NN1G

Nov 1994 QST 33 Just Enough Radio -- The SP-750 Spider Junior Agsten,
Mike, WA8TXT

Oct 1994 QST 64 Build a One-Watt Transmitter in a Kodak Film Box Capon,
Robert, WA3ULH

Oct 1994 QST 46 What is QRP? Arland, Rich, K7YHA

Sep 1994 QST 94 Dummy-Load QRP Wattmeter, A (Hints and Kinks) Morrison,

Glenn, K09L

Sep 1994 QST 32 Thermoelectric Power for QRP Transmitters Sayre, Arnold, W8WVM

Jun 1994 QST 100 Working OSCAR 13 Mode S-QRP! (Amateur Satellite Communications) Lau, Zack, KH6CP

Jun 1994 QST 74 How to Get Started in QRP [Ingram] (New Books) Kearman, Jim, KR1S

Jun 1994 QST 42 Low Power Communications Volume 2, Advanced QRP Operating [Arland] (New Books) Kearman, Jim, KR1S

May 1994 QST 83 S & S Engineering ARK 40 CW QRP Transceiver Kit (Product Review) Gold, Jeff, AC4HF

May 1994 QST 68 Join the QRP Craze (Radio Tips) Kleinschmidt, Kirk, NT0Z

Apr 1994 QST 113 Falling in Love with QRP (YL News) Dunn, Connie, KB5LES

Mar 1994 QST 83 QRP Wallpaper (Strays) Wendell, Roger, WB0JNR

Feb 1994 QST 92 QRP Philosophy 101 (Correspondence) Latta, Bill, N4LH

Aug 1993 QST 66 Lemon Power Revisited (Hints and Kinks) Sayre, Arnold, W8WVM

Jul 1993 QST 45 MFJ 9017 18-MHz QRP CW Transceiver (Product Review) Hale, Bruce, KB1MW

May 1993 QST 47 QRP Kit (S&S Engineering ARK-40) (New Products)

Mar 1993 QST 85 Ugly Side of QRP, The (Correspondence) Appel, Clifford, WB6AWM

Mar 1993 QST 9 QRP? (It Seems to Us...) Sumner, David, K1ZZ

Mar 1993 QEX 1 40-meter QRP CW transceiver (About the Cover)

Feb 1993 QST 75 Operate QRP with an Easy-to-Build Attenuator (Hints and Kinks) Jeffery, Jay, WV8R

Nov 1992 QST 88 Low Power Communications: Volume I--QRP Basics [Arland] (New Books) Kearman, Jim, KR1S

Jun 1992 QST 27 "Ugly Weekender" II, The: Adding a Junk-Box Receiver Hayward, Roger, KA7EXM

May 1992 QST 60 Oak Hills Research 40-Meter QRP Transceiver Kit (Product Review) Kearman, Jim, KR1S

Mar 1992 QST 18 Lemonized QSO Hayward, Wes, W7ZOI

Jan 1992 QST 55 QRP Three-Bander, The (Feedback)

Dec 1991 QST 85 QRP News (Strays)

Dec 1991 QST 85 72 (Wishing You Good QRP) (Strays)

Aug 1991 QST 84 OK-QRP-Club (Strays)

Aug 1991 QST 37 Powerful Interest in QRP (Strays)

Jun 1991 QST 35 QRP Transceivers (A&A Engineering 180-K20; 180-K30; 180-K40) (New Products)

May 1991 QST 46 A QRP SSB/CW Transceiver for 14 MHz (Feedback)

Mar 1991 QST 27 Kayaking QRP (Feedback)

Mar 1991 QEX 12 Comments on the October Safari-4 QRP Transceiver Article (reply) (Correspondence) Burdick, Wayne, N6KR

Mar 1991 QEX 12 Comments on the October Safari-4 QRP Transceiver Article (Correspondence) Klingelhoefter, John H., WB4LNM

Feb 1991 QST 63 Kayaking QRP (Feedback)

Feb 1991 QST 23 BP-80: An 80-Meter CW Transceiver, The Agsten, Mike, WA8TXT

Jan 1991 QST 17 Portable QRP CW Transceiver, A--Part 2 Breed, Gary, K9AY

Jan 1991 QST 14 Kayaking QRP Powloski, Kent, N7KPN

Dec 1990 QST 44 Portable QRP CW Transceiver, A--Part 1 Breed, Gary, K9AY

Dec 1990 QEX 11 The Safari-4: A High-Integration, 4-Band QRP Transceiver--Part 3 of 3 Burdick, Wayne, N6KR

Nov 1990 QST 38 Make Your Own QRP Carry-All (Hints and Kinks) Stivison, Doug, NR1A

Nov 1990 QEX 3 The Safari-4: A High-Integration, 4-Band QRP Transceiver--Part 2 of 3 Burdick, Wayne, N6KR

Oct 1990 QST 36 More "QRP" EME on 144 MHz Soifer, Ray, W2RS

Oct 1990 QEX 10 The Safari-4: A High-Integration, 4-Band QRP Transceiver--Part 1 of 3 Burdick, Wayne, N6KR

Jul 1990 QST 38 Diode-Based QRP TR Switch, A (Hints and Kinks) Carr, Ronald, WA1VGB

May 1990 QST 64 QRP Articles are Great (Correspondence) Czuhajewski, Michael, WA8MCQ

Apr 1990 QST 62 Why QRP? Because it Works (Correspondence) Liles, Byron Paddy, W9LOH

Apr 1990 QST 27 A QRP SSB/CW Transceiver for 14 MHz (Feedback)

Feb 1990 QST 43 Why QRP? Chaffin, Kenny, WB0E

Feb 1990 QST 19 Simple and Accurate QRP Directional Wattmeter, A Lewallen, Roy, W7EL

Jan 1990 QST 28 QRP SSB/CW Transceiver for 14 MHz--Part 2, A Hayward, Wes, W7ZOI

Date: Tue, 22 Aug 2000 08:27:38 -0600
From: Pat Byers <pbyers@rttinc.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [77860] OT - Mailing to Canada
Message-ID: <4.3.2.7.2.20000822081819.00ae1920@127.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi all,

Since Karl K5DI brought it up, I thought I'd mention one pitfall to avoid when sending goodies to your northern brethren. <g>

By international postal convention, parcels intended for foreign destinations must have a Customs declaration form attached. Several times I've been the recipient of parcels where the insured value (usually higher than the selling price) is used as the declared value. Unfortunately, Customs usually accepts the declared value for assessing applicable duties and taxes so if this value is inflated, I pay more. There is an appeal process but that takes time and since most private transactions don't involve receipts Customs isn't obliged to accept the selling price as the

actual value.

Just a little heads up for the group.

73,

Pat Byers VE6AAN
Ponoka, AB

Date: Tue, 22 Aug 2000 09:27:36 -0500
From: "Kevin Muenzler, WB5RUE" <wb5rue@arrl.net>
To: <aa4lr@radio.org>, "'Low Power Amateur Radio Discussion'" <qrp-1@Lehigh.EDU>
Subject: [77861] RE: Oscilloscope bandwidth
Message-ID: <000001c00c45\$1e959490\$ef5d6f81@v8.uthscsa.edu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Correct Bill. This scope is accurate to 5MHz but "usable" to 40MHz.
73/72/
Kevin, WB5RUE

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Bill Coleman AA4LR
> Sent: Tuesday, August 22, 2000 8:57 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Oscilloscope bandwidth
>
> A "40 MHz" scope with a 5 MHz bandwidth is a 5 MHz scope.
>
>
> Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@radio.org
> Quote: "Boot, you transistorized tormentor! Boot!"
> -- Archibald Asparagus, VeggieTales
>
>

Date: Tue, 22 Aug 2000 10:48:03 -0400
From: "Caitlyn M. Martin" <caitlyn@netferrets.net>
To: vhf@w6yx.stanford.edu

Cc: qrp-1@lehigh.edu, yaesu@contesting.com
Subject: [77862] Re: FT-817
Message-ID: <00082210480300.00769@caitlyn.netferrets.net>
Content-Type: text/plain
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

Hi, everyone,

> Thanks to XE1KK for info on the new FT-817 on <<http://www.xe1kk.net/>>.
> He indicates a price of about \$1000 in Japan.

Considering what you get for the price, it does sound like a pretty good deal, doesn't it? Consider this: a Tokyo Hy-Power HT-750, without antennas, is about \$625 in US dollars right now, and that is for a three band (6, 15, and 40), three SSB/CW watt HT that probably takes up as much volume, or perhaps more, than the FT-817.

>

> My reaction is that the rig is primarily aimed at the 5-watt no code
> Japanese licensees. Most "100-W" rigs we see in the USA also come in a
> 5-W version for those hams.

Then why all the bands? All the 6, 15, and 40 watts rigs you see target Japanese novices. Also, their power limit is 10 watts, not 5. This looks to be aimed at a broader market: QRP/portable ops *plus* Japanese novices :)

>

> What I thought was a give-away was the mike connector on the right side
> of the rig - just right for the right-hand-drive cars in Japan. You'll
> also note that the tuning knob is to the right of the screen, fine for
> Japan, but you'd have to reach across the screen in a US mobile
> installation. Of course that placement fits right-handers for fixed
> (not mobile) operation.

It would also work out well for portable operation, and Yaesu has a very long history of making very nice portable VHF/UHF multimode transceivers. I suspect this was originally intended as a replacement for the FT-x90RII series, much as the FT-847 was meant as a replacement for the FT-736R. HF, in both cases, would be a bonus.

I know that I am extremely interested in this rig to say the least. As one friend pointed out, it still may not be an adequate replacement for my HT-750, though, for one reason: how much power does it consume on receive? How long will it last on batteries? The Tokyo Hy-Power rig consumes 100ma. If Yaesu has matched that number, then this rig would truly be a huge step forward for portable operations. If it consumes considerably more power, then it may just be a very nice QRP rig, but not a handheld replacement.

I still think this rig is going to end up at the top of my "must have" list

:) I rarely purchase equipment new, but this rig has me planning just such a purchase.

72,
Caity
KU4QD

--
Caitlyn M ire Martin
caitlyn@netferrets.net
<http://www.caitys-world.com>

Date: Tue, 22 Aug 2000 10:43:55 EDT
From: Shepherd@aol.com
To: <qrp-1@lehigh.edu>
Subject: [77863] OT=Low Power Rules!
Message-ID: <200008221444.KAA50710@nss4.cc.lehigh.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Please reply direct, keep the BW down.

=====
Ion-powered spacecraft sets flight record:

"The hardly noticeable thrust from the ions exerts about the same amount of pressure as a sheet of paper held in the palm of one's hand. While slow to pick up speed, ion propulsion creates substantial power over great distances, delivering 10 times more thrust per pound of fuel than conventional rockets."

Sounds just like my DSW-20 :-)

<http://www.cnn.com/2000/TECH/space/08/18/deep.space.1/index.html>

Date: Tue, 22 Aug 2000 07:44:18 -0700
From: Dan Tayloe <dtayloe@home.com>
To: "Karl F. Larsen" <k5di@zianet.com>, qrp-1 <qrp-1@Lehigh.EDU>
Subject: [77864] Re: QRP Homebrew Question
Message-ID: <39A291C2.2A2515D@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

If I remember right, there was no filtering on the TTL osc, so 7 and 14

MHz

sub harmonics would get sent straight to the antenna. The output filter is only a low pass filter, not a bandpass filter.

www.digikey.com has links to all the manufacturer homepages. You can get the info from there.

- Dan, N7VE

"Karl F. Larsen" wrote:

>

> Hi Dan, where can I find a data sheet on the Epson SG-8002? Would you say
> these are real cheap crystals? I gather you apply 5 vdc and they come
> alive. Is it stability that precludes harmonic use?

>

> On Mon, 21 Aug 2000, Dan Tayloe wrote:

>

> > This design is intended to use only fundamental frequencies.

> >

> > If I were you, I would skip the crystal osc. part of this and
> > instead use one of the Epson SG-8002 programable clock osc chips
> > from Digikey to drive the thing.

> >

> > For \$3.33 each Digikey will program the part with a frequency of
> > your choice. For that price, (and a \$5 penalty for orders under \$25)
> > order *both* 15m and 18m cw frequencies (buy some for your friends!)
> > and use the same 15m low pass filter for both bands.

> >

> > Digikey part number: SG-8002DBPHB-ND and specify the frequency.

> >

> > - Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions

> >

> >

>

> Yours Truly,

>

> - Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 22 Aug 2000 07:49:51 -0700

From: Dan Tayloe <dtayloe@home.com>

To: "Everhart, Joseph @ CSE" <jeverhar@mail.cse.1-3com.com>, qrp-l <qrp-l@Lehigh.EDU>

Subject: [77865] Re: QRP Homebrew Question

Message-ID: <39A2930F.5A8C9E84@home.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I don't have a spectrum analyzer, but hope to correct that sometime soon :^).

However, I have tried to use one of these as a reference for a high performance DDS based receiver. I found that my 3 db MDS dropped from -141 to about -129 due to the excessive noise it put out. However, like I said, a receiver is much more picky than a transmitter, so it seemed like it was a reasonable part to drive a simple QRP transmitter.

- Dan, N7VE

"Everhart, Joseph @ CSE" wrote:

>
> Dan,
>
> You wrote on qrp-l:
>
> This design is intended to use only fundamental frequencies.
>
> If I were you, I would skip the crystal osc. part of this and
> instead use one of the Epson SG-8002 programable clock osc chips
> from Digikey to drive the thing.
>
> For \$3.33 each Digikey will program the part with a frequency of
> your choice. For that price, (and a \$5 penalty for orders under \$25)
> order *both* 15m and 18m cw frequencies (buy some for your friends!)
> and use the same 15m low pass filter for both bands.
>
> Digikey part number: SG-8002DBPHB-ND and specify the frequency.
>
> - Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions
>
> Have you done a check of the spectrum of these oscillators?
>
> I've not had an opportunity to do a serious check of the spectral purity of
> them (I'm too much a paper engineer these days...) however I *did*
> look at one briefly on an 8656 spectrum analyzer a couple of months
> ago. The spectrum looked like there were lots of close-in spurs in the
> range of several kHz out to 20 or 30 kHz. I got 30 seconds on the
> spectrum analyzer before my tech ripped it away from me...
>
> >From what I observed I'm not sure that I'd want to use something that
> dirty on the air.
>

> 72/73,
>
> Joe E., N2CX

Date: Tue, 22 Aug 2000 11:02:35 -0400
From: "Caitlyn M. Martin" <caitlyn@netferrets.net>
To: Bruce Muscolino <w6toy@erols.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Cc: yaesu@contesting.com, yaesu@qth.net
Subject: [77866] FT-817 (was Re: Yaesu QRP Rig Rumor)
Message-ID: <00082211023501.00769@caitlyn.netferrets.net>
Content-Type: text/plain
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

Hi, Bruce and the rest of y'all,

>
> The fact is that the Japanese manufacturers used to all produce low
> power versions of their radios. Their novice license had a maximum
> power output of around 10 watts PEP. The Kenwood TS120 and TS130V
> series radios came from this. Yaesu sold the FT-7 and the FT-301D
> series radios.

Kenwood also had the TS-660 (6,10,12,15 meters, 10 watts) and the TS-670 (6,10,15,40 meters, 10 watts). Both of these were Japanese novice rigs which doubled as the company's entries into the 6 meter market in the 1980s. The TS-660 was my main rig for a decade, and I'd still buy one back if I found one at a very reasonable price. They were outstanding rigs in their time.

National Radio (a/k/a Panasonic, Matsushita) also had monoband and triband QRP rigs, which were imported into this country by NCG. I have the NCG 7/21/50 (6, 15, and 40 meters, 10 watts, built in power supply), and it is also really, really nice. Anyone who has worked me from home on those bands recently has heard it :)

>
> What stopped their importation? Mostly lack of interest in the rest of
> the world.

Thank you! This is a point everyone should take note of.

> We should learn from our past mistakes and if Yaesu does, in
> fact, import another QRP version, give it a real chance! I have both
> the FT301D and the TS130V. They are fully the equal of any pre-DSP
> radios, with filtering equal to the buig boys because it is the same!

In the case of the FT-817, we may be dealing with a rig specifically designed for QRP, not just an "S" version of the FT-100. In either case, it really does deserve some support from the QRP community if we would like to see it and other rigs like it sold here in the future.

Oh, and no, I have no stock in Yaesu Musen, but I do have a shack full of QRP self-contained rigs for HF and VHF :)

72,
Caity
KU4QD

--
Caitlyn M ire Martin
caitlyn@netferrets.net
<http://www.caitys-world.com>

Date: Tue, 22 Aug 2000 10:49:46 -0400
From: "AI2Q Alex" <ai2q@ispchannel.com>
To: <k5zty@juno.com>
Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [77867] RE: Anybody Seen a PiG?
Message-ID: <000101c00c48\$37927e60\$5c32a7d0@ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sure thing Bill. Check out <http://www.eham.net/articles/1024> which is an article that's really just a short manuscript from a local club newsletter.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----
From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of Bill Stietenroth
Sent: Monday, August 21, 2000 8:00 PM
To: Low Power Amateur Radio Discussion
Subject: Re: Anybody Seen a PiG?

Hey Alex,

I don't believe I've ever seen your name on a column. Why don't you write a QRP column for a national magazine so we can see what it should be like.

Bill, K5ZTY
Houston, TX

Date: Tue, 22 Aug 2000 08:00:38 -0700
From: Lee Hopper <leehop@uswest.net>
To: qrp-l@Lehigh.EDU
Subject: [77868] Re: Yaesu QRP Rig Rumor
Message-ID: <39A29596.D36E4681@pop.ptld.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: quoted-printable

Another picture of the FT-817 available on Ram=F3n's web page (thanks, Ram=F3n!)

-LH

> From: "Ram=F3n Santoyo V." <ramsan@rsventures.com>
> Subject: More on the FT-817 HF/VHF/UHF all mode portable transceiver
> =

> I have receive so many request for the FT-817 photo that I decide to include =

> another photo (you can see the full length of the antenna) and more =

> information on my web page: <http://www.xe1kk.net/>
> =

> Even that my page is in spanish you will find the information in english at =

> the top of the "OTROS" (Other) section.
> =

> For the people who repost the FT-817 news on other reflector (QRP, PSK3=1, =
50MHz, etc) I ask you to post this message as well.
> =

> I hope you find it useful.
> =

> 73 de Ram=F3n, XE1KK
> www.xe1kk.net
> xe1kk@xe1kk.net
> =

> =

>

Date: Tue, 22 Aug 2000 11:00:17 -0400
From: "Armin Hachmer" <armin@muskoka.com>
To: "Flying Pigs" <fpqrp@egroups.com>, "QRP-Canada" <qrp-canada@lists.gpfn.sk.ca>, "QRP-L" <qrp-l@Lehigh.EDU>, "RAC-Bulletins from HQ" <rac-bulletins@mail.eton.ca>, "Garry V. Hammond" <ghammond@gate-way.net>
Cc: "Ken La Rose" <ve3ela@hotmail.com>
Subject: [77869] Canadian Islands Awards Program
Message-ID: <00a201c00c4a\$04019660\$a9afd4c7@muskoka.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

this weekend we will activate at least one of three new Canadian Islands. They are Pancake Island, Windfair Island and Snug Harbour Lighthouse Island. Location is about North 45 West 80 in an area of Georgian Bay, Ontario, Canada known as the 30,000 Islands, the greatest concentration of freshwater islands in the world.

Please look for us.
VE3ELA Ken and VE3TEQ Armin
Saturday August 26th from 18:00 Zulu
Sunday August 27th from 14:00 Zulu

SSB 14.260 +/- CW 14.070 +/-
7.260 +/- 14.070 +/-

Details of the Canadian Islands program are at
www.tir.com/~wd8mgq/Canadian.html

QSL via the bureau or with SSAE to Armin Hachmer VE3TEQ
45 Tower Road
RR 1
MacTier, Ontario, Canada
P0C 1H0

Date: Tue, 22 Aug 2000 10:23:45 -0500
From: "Joe Spencer" <kk5na@quadj.com>
To: "QRP-L Discussion" <qrp-l@lehigh.edu>
Subject: [77870] FS: QRP Rigs for sale
Message-ID: <008401c00c4c\$f69b8910\$5901060a@us95305252>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Gang

... ITEMS for sale ... Two NN1G radios. A Small Wonders Lab rig
and a Small Wonders Lab Kit !!!

#1: SWL-30 works fine .. In a SWL Enclosure. .
Looks good...works good. Price: \$75.00

#2: SWL-20 Kit - Unbuilt - (you supply enclosure)
Price: \$50.00

plus S/H.

Please do NOT respond to the list !!! E-MAIL me direct: kk5na@quadj.com

Joe KK5NA

Date: Tue, 22 Aug 2000 11:29:53 EDT
From: Macstein@aol.com
To: pbyers@rttinc.com, qrp-l@lehigh.edu
Subject: [77871] Re: OT - Mailing to Canada [and propagation]
Message-ID: <34.97d11d5.26d3f671@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 8/22/00 10:28:47 AM Eastern Daylight Time,
pbyers@rttinc.com writes:

> Since Karl K5DI brought it up, I thought I'd mention one pitfall to avoid
> when sending goodies to your northern brethren. <g>

HA! I mailed Pat a hat he left behind on a visit to SWAMP RAT land in FL, and I bet I made him pay three times the value of his venerable Tilly hat! FUNNY (to me, NOT to Pat!)

How's the propagation up North buddy? Hey, did anyone else catch that opening into Indonesia yesterday morning (Aug 21) on 20 meters? I called for Sly, but he must have been asleep. The new "stealth dipole" is working ok.

72

-MAC-

AF4PS

Odessa, FL "Home of the Infamous Attic Dipole" and K2 #643

QRP-L # 704, FISTS #5096, CC #754, NorCal #1998, Zombie #510, ARCI #9843, AR QRP #257, HI QRP #83, ARS # 751, Whiners #5, SOC #28, West FL QRP, Flying Pig QRP #-51... and various other annual \$15 commitments.

Date: Tue, 22 Aug 2000 15:31:13 +0100
From: "Walter D Amos" <waltk8cv@surfree.com>
To: "Posts Qrp-l" <qrp-l@lehigh.edu>
Subject: [77872] Stock market insiders sell off ??
Message-ID: <000701c00c46\$1c8cafc0\$90891b26@waltamos>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Friends of the K-2:

Celebrity Insiders, what do you know that the rest of us don't with all the K-2 sell off!

Should I sell mine before the BOTTOM DROPS OUT ??

Is there a K-3 in the offing? Will it have a 100 watt output and a 100 watt ATU.

Non insiders want to know !! What am I ?? SECOND CLASS K-2 OWNER?

Will there be numbers issued for SK2 ??

Walt Amos K8CV Royal Oak, MI k8cv@arrl.net

Date: Tue, 22 Aug 2000 08:35:41 -0700
From: Bob Nielsen <nielsen@oz.net>
To: qrp-l@lehigh.edu
Subject: [77873] Re: QRP Power (formerly Anybody Seen a PiG?)
Message-ID: <20000822083541.B29806@oz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Don't forget QEX, which is where the ARRL currently puts a lot of the "meat".

On Tue, Aug 22, 2000 at 09:21:29AM -0400, Rick Sealey wrote:

> Huh?
>
> Alex, you must be getting a different version of QST than me. Actually,
> over the last several years I've noticed considerable improvement in its
> technical content, and recently, especially as related to the subject of QRP.
>
> A few months ago, after also generally feeling that QST was not as strong
> in this area, I sat for several hours in my garage, thumbing through my old
> issues from the 60's, 70's, and 80's. I was quite surprised to find, in a
> broad scope, there is at least as much technical information now as then.
> As for Rich Arland's column, he stated from the get-go that it wasn't
> intended to be technically deep, but more suitable for newcomers. I think
> he's hitting that target pretty well.
>
> Fortunately for those of us who are looking for a little more "meat", we've
> got a lot of great publications available, such as QQ from ARCI, QRPP from
> NORCAL, QRP Homebrewer from NJQRP, Low Down from Col. QRP, SPRAT from
> G-QRP, and many others. Then there's the Internet with the ARS Sojourner
> available on-line, plus at least a blue-million related great web sites,
> email reflectors and forums. Heck, I can't find time to read it all, now.
>
> I'm glad for Rich's column, interesting and maybe less intimidating for the
> less experienced. Seems to me to fill a niche otherwise ignored.
>
> Rick - W4SEA
>
> At 12:58 PM 8/21/00 -0400, you wrote:
> >
> >The latest issue of QST (September) came over the weekend, and I see that
> >the "QRP Power" column is still a pathetic waste of a page!
> ----- SNIP -----
> >I'm so-o-o glad I've kept my old QSTs from the 1960s and '70s, when REAL
> >articles about QRP circuits were plentiful, and highly useful, as well as

> >entertaining, instead of this dumbed-down type of drivel that passes for
> >technical editorial! Ugh.
> >
> >No wonder ham radio appears to be diminshing in its perceived value in many
> >public quarters.
> >
> >Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.
>

--

Bob Nielsen, N7XY
Bainbridge Island, WA

nielsen@oz.net
<http://www.oz.net/~nielsen>

Date: Tue, 22 Aug 2000 08:37:04 -0700 (PDT)
From: Steve Yates <aa5tb@yahoo.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [77874] Re: Oscilloscope bandwidth
Message-ID: <20000822153704.826.qmail@web3001.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Could it have been a digital scope?

Some digital scopes have a very high A/D sample rate specification but with an analogue bandwidth much lower. This would give the user an idea on the possibility of aliasing or transient response problems, etc. for a given input signal.

For example, in the given example if we assume that 40MHz and 5MHz referred to the sampling rate and 3dB bandwidth of the scope it may still have a reasonable response at 30MHz, albeit way down. Due to the 40MHz sample rate a signal with a large 30MHz component may cause aliasing artifacts that aren't really there.

=====

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://www.geocities.com/aa5tb>
aa5tb@arrl.net

Do You Yahoo!?

Yahoo! Mail Free email you can access from anywhere!

<http://mail.yahoo.com/>

Date: Tue, 22 Aug 2000 08:43:11 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: "Jerry Scherkenbach" <jerrys@execpc.com>
Cc: qrp-1@lehigh.edu, elecrafft@qth.net
Subject: [77875] Re: Bubba Sprint question
Message-ID: <200008221538.IAA12385@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:43 PM 8/21/2000 -0500, you wrote:

>Hi Bob,

>The rules on your website list the date for the Bubba Sprint as August 26
>(this Saturday). Is this correct? The QRP contest calendar I have shows
>it as Sunday, August 27. Don't want to go out on the wrong day...hi hi
>

The date is Saturday, August 26, 2000. Don't know where the Sunday date
came in, but it's incorrect.

Complete rules are at <http://www.extremezone.com/~nk7m/bubba00.htm>

Bob Hightower NK7M
Chandler, AZ
SOC #20
K2 #157/255

<http://www.extremezone.com/~nk7m>

Date: Tue, 22 Aug 2000 10:42:37 -0500
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'walthk8cv@surfree.com'" <walthk8cv@surfree.com>, Low Power Amateur Radio
Discussion <qrp-1@Lehigh.EDU>
Subject: [77876] RE: Stock market insiders sell off ??
Message-ID:

<4734702CFA3CD411A74A00805F57A3B703E3F478@dfwex01.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

You're a "Second-Class K-2 Owner" only if you belong to SOC and have an assigned number, Walter!

Karl K - W8TIF
McKinney, Texas

-----Original Message-----

From: Walter D Amos [SMTP:waltk8cv@surfree.com]
Sent: Tuesday, August 22, 2000 9:31 AM
To: Low Power Amateur Radio Discussion
Subject: Stock market insiders sell off ??

Friends of the K-2:

Celebrity Insiders, what do you know that the rest of us don't with all the K-2 sell off!

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Will there be numbers issued for SK2 ??

Walt Amos K8CV Royal Oak, MI k8cv@arrl.net

Date: Tue, 22 Aug 2000 08:55:18 -0700
From: Bill Jones <kd7s@psnw.com>
To: qrp-l@lehigh.edu
Subject: [77877] QRP AFIELD Planning
Message-ID: <39A2A266.3AA01456@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Friends,

I have decided I need another backpacking trip so plan to hike to a place called Jennie Lake in the Sequoia National Forest here in the

central California Sierra. The primary focus of the trip will be to operate the QRP AFIELD contest. I will be on 20 meters only with my DSW-20. Of course I will be signing /P Sunday morning.

How about you? What are your plans for QRP AFIELD?

--

Bill Jones - KD7S <><
Sanger, California
<http://www.psnw.com/~kd7s/>

Date: Tue, 22 Aug 2000 08:56:40 -0700
From: "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>
To: "'qrp-1@Lehigh.edu'" <qrp-1@Lehigh.edu>
Subject: [77878] Shipping To Canada
Message-ID: <60F1FEB31CA3D211A1B60008C7A45F430997FFBB@blaze.bcsc.GOV.BC.CA>
Content-return: allowed
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Another pitfall to avoid when sending stuff to Canada is to be sure to only put the actual value of the goods in the "Value For Customs Purposes" box on the Customs form. Many times I have received a shipment that had the value of the goods PLUS the shipping costs in this box. Canada Customs will then use this value to determine duty (if required) and any taxes so we will pay too much. Also, even if the item is just a 'give away' be sure to put some number in this box. According to Canada Customs, everything has a value. So, put \$10 in there just to be safe even if your just giving it away or trading it for something else of equal value.

Just a few more pointers.

Doug VA7DD

Date: Tue, 22 Aug 2000 11:18:11 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-1@Lehigh.EDU>

Subject: [77879] Re: follow-up on SG-8002 oscillators
Message-ID: <000501c00c54\$92a5cee0\$0f024d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

These things sounded great so I ordered a couple for the Georgia Sierra project. This was my ideal answer for my 10 meter crystal problem. Well it worked - - sort of. My receiver exhibited a very broad band characteristic. There was so much noise from this oscillator that I was receiving many different frequencies at once. Filtering did not change the situation. I figured that it was phase noise due to the PLL. This situation forced me to get an overtone oscillator working in my homebrew Sierra.

I can see no use for these devices in radios except to demonstrate the effects of phase noise in a receiver local oscillator. However if someone can work out how to get around these inherent problems it would be interesting to see how they solved this.

Mike Branca W3IRZ in Conyers Georgia

Date: Tue, 22 Aug 2000 09:38:24 -0700
From: Allan G Taylor <k7gt@qsl.net>
To: qrp-l@lehigh.edu
Subject: [77880] NC20 question
Message-ID: <39A2AC80.85A@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The club NC20 kit (recently purchased through qrp-l) that I am now building has a reference in the manual to the possibility of substituting another op amp for the one in the kit. I believe this was in the rx audio. Has anyone done this in a NC20? What chip did you use?

I am planning to implement all the known mods as I build it and am interested in anything of note that I may include while I am in the process.

73 Allan K7GT

--

Allan Taylor K7GT Pleasanton/Livermore CA

k7gt@qsl.net or k7gt@aol.com

Date: Tue, 22 Aug 2000 09:45:50 -0700
From: "Arthur G. Silvers" <ags@ieee.org>
To: qrp-1@Lehigh.EDU
Subject: [77881] Re: Expanded frequency coverage of the SMK-1???
Message-ID: <39A2AE3E.BE940388@ieee.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Another trick that may be worth a try is to reduce the value of R7 thus increasing the tuning voltage swing accross D6 and D7. This should result in a higher upper frequency. The SMK-1 kit is still on my bench unopened so I haven't tried this but the approach worked with the SST-20. A 1/8 watt conventional resistor in parallel with R7 may do the trick. Linearity shouldn't be an issue. May also work on the receiver side at R2.

Why am I posting this? Well, what good would it be to have the only rig with a wider freq coverage on the night of the contest? ;~}

One possible schedule conflict but hope to see you all there.

72/73
Arth W6AGS

Date: Tue, 22 Aug 2000 12:53:18 -0400
From: "Shawn Upton" <shawn-upton@orgella.com>
To: <qrp-1@lehigh.edu>
Subject: [77882] 10 Turn Trimpots and 20m operation
Message-ID: <00cb01c00c59\$831ccfa0\$1b13bac6@eng.orgella.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi guys,

In the near future, I am thinking of buying a few more kits. But, most of the kits I am looking at use 3/4 turn trimpots for frequency control. My 1340 benefited greatly from a 50k 10 turn trimpot in place of the 3/4 turn jockey. Since I am going to do some parts ordering from digi-key/Dan's

Small parts/newark in near future too, what are the some of the sizes I ought to get? Perhaps to be a bit more clear, if you built kit xyz, what pot did you use to make the conversion painlessly (or nearly so)?

Also, I've been looking at the SST series kits. For the VX0, with it's approximate 10-20kHz tuning range, has any one objected to the single turn pot for freq control? Or would it benifit too from a multi turn trimpot?

And last, how is 20m qrp voice? I do a fair amount of traveling on Sunday afternoons/early evening, and I would like to get another HF band for the car--10m has been kinda hit and miss lately, mostly miss.

Thanks for the help.

KB1CKT

Shawn Upton

Date: Tue, 22 Aug 2000 11:56:47 -0500
From: "Joel Kluender, NF9K" <nf9k@eudoramail.com>
To: qrp-l@lehigh.edu
Subject: [77883] Thanks/ QRP Expedition
Message-ID: <NEDLHNBPHEFBAAA@shared1-mail.whowhere.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Language: en
Content-Transfer-Encoding: 7bit

All,

Thanks to anyone who might have been listening out for me on my recent hiking/fishing/hamming trip to Cooke City, MT.

In short, I did a whole lot less hamming than anticipated because of the tons of hiking & fishing we did, and the fact that my QTH was often not amenable to getting on the air. We were often in "fishbowl" like areas formed by the surrounding mountains. I managed to talk to K0PC and KC6DKE while tenting next to Round Lake (near Cooke City) at 9300 ft, and later talked to W7QQQ while at around 11k feet at the West Summit in Shoshone National Forest. It was a good thing I used a self-supporting vertica as I was above the treeline! Other than that, I did not manage to get on the air. But the little bit of radio I did get to play was tons of fun.

Thanks to K0PC and KC6DKE for calling my wife at home and letting her know the bears hadn't eaten me yet!

73,
Joel NF9K

Joel Kluender, NF9K
870 Prairie Street S.
Shakopee, MN 55379

Great is the Lord, and worthy of praise!

Join 18 million Eudora users by signing up for a free Eudora Web-Mail account at
<http://www.eudoramail.com>

Date: Tue, 22 Aug 2000 12:34:24 -0400 (EDT)
From: Joel Malman <malman@world.std.com>
To: qrp-l@Lehigh.EDU
Cc: k1qm@world.std.com
Subject: [77884] [CLUB-NET] NE-QRP Club
Message-ID: <200008221634.MAA08401@world.std.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Folks,

The next NE-QRP CW Net is scheduled for this Thursday (in the USA) at 9pm
Eastern Time (0100 Aug 25 GMT). Regular 40 meter frequency on about 7041.

All amateurs are welcome to check-in, say hello, and pass on any comments
to the group.

NCS will be me, K1 Queen Mary ... see you there.

--

/joel K1QM (K1 Queen Mary), Concord, MA.
QRP-L #337, QRP-ARCI #9305, MI-QRP #1641

Date: Tue, 22 Aug 2000 10:10:25 -0700
From: Bill Jones <kd7s@psnw.com>
To: ki6ds@hotmail.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [77885] Re: Expanded frequency coverage of the SMK-1???
Message-ID: <39A2B401.D81C6A21@psnw.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Friends,

I played with my SKM-1 last night in an attempt to expand the (transmit) frequency coverage but was unsuccessful.

Paralleling a second crystal simply raised the transmit frequency well beyond the range of the receiver. Next, I tack-soldered a variable capacitor across D6/D7 but that didn't help either. I also tried what Arthur Silvers suggested (reducing the value of R7) without success. It's not quite as easy (at first glance) as it looks. Back to the drawing board.

Doug Hendricks wrote:

> Guys, we are planning an operating event at Pacificon using the SMK-1 rigs.
> As you are probably aware, the transmitter has only about 1.5 kHz of
> coverage. Has anyone tried tacking another 7.040 crystal on the bottom of
> the board to see if it will extend the range of the transmitter? --

Bill Jones - KD7S <><
Sanger, California
<http://www.psnw.com/~kd7s/>

Date: Tue, 22 Aug 2000 11:26:08 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: qrp-l@lehigh.edu
Subject: [77886] Re: Mailing to Canada
Message-ID: <39A26350.3104.37B01B@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

>>special form to mail a package to
Canada, and it's more expensive. The special form has my signature 2
places and my address and the address it's going to. <<

The special form is a customs declaration, because in many respects Canada is just like a foreign country [g]. The second part of the form is torn off and filed in your PO. It's new, and required as part of the FAA's "security

imposition" on the Postal Service. If you were to mail a bomb overseas, and IF they were able to find the customs label, then they could go to your post office and find out what name and address you were pretending to be/at when you sent it. The restrictions have played hell with businesses (for example, a lot of parcels now must physically go to a window clerk at the post office where they could have been "dropped" or picked up previously). Huge inconvenience for all concerned, and of little or no benefit from a security standpoint, but no doubt there are civil servants who can claim that they actually "did something."

If you had insured the package then it would have had to go Air Parcel Post, with a much more complicated customs form and of course a separate insurance form.

Please ignore my sarcastic comments about "security" and comment privately if you want to, but the topic probably should go off list.

I mention this because we QRPers are constantly mailing stuff around, and it does help to have the paperwork done before you get to the window in the PO. The USPS web site (new url-- www.usps.com) is actually quite good at letting you know what's required.

Marshall Emm, N1FN
Milestone Technologies, Inc.
(303) 752-3382
<http://www.mtechnologies.com>

Date: Tue, 22 Aug 2000 12:28:04 -0500
From: "Maddog 'n' Miracles" <maddog@io.com>
To: jandg@brink.com, qrp-1@Lehigh.EDU
Cc: maddog@io.com
Subject: [77887] Homebrew QRP Web page
Message-ID: <3.0.6.32.20000822122804.009a9700@mail.io.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi George!

I found your qrp web page at

<http://cs.okanagan.bc.ca/ve7ouc/eng/kc6wdk-mirror/>

What a great little page, full of simple QRP projects and pictures. Thanks!

72,
monty N5FC

Monty Northrup * "There is no way to peace; peace IS the way"
N5FC * e-mail: maddog@io.com * web: http://www.io.com/~maddog/

Date: Tue, 22 Aug 2000 13:34:38 -0400
From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [77888] RE: QRP Power (formerly Anybody Seen a PiG?)
Message-ID: <125490A005E3D3118C9C00805FC743CCB2C375@mail.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

> Don't forget QEX, which is where the ARRL currently puts a lot of the
> "meat".

Actually, I think that most of the stuff published in QEX would not have
been published at all in QST, now, or in the 60s, 70s or 80s. It really is
the higher tech end of ham radio publishing.

73,
Ed Hare, W1RFI
ARRL Laboratory Supervisor
225 Main St
Newington, CT 06111
Tel: 860-594-0318
FAX: 860-594-0259
Internet: w1rfi@arrl.org
ARRL Web: http://www.arrl.org
ARRL Technical Information Service: http://www.arrl.org/tis/

> -----Original Message-----
> From: Bob Nielsen [mailto:nielsen@oz.net]
> Sent: Tuesday, August 22, 2000 11:36 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: QRP Power (formerly Anybody Seen a PiG?)
>
>
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>
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> >
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> >
> > Fortunately for those of us who are looking for a little
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> > got a lot of great publications available, such as QQ from
> ARCI, QRPP from
> > NORCAL, QRP Homebrewer from NJQRP, Low Down from Col. QRP,
> SPRAT from
> > G-QRP, and many others. Then there's the Internet with the
> ARS Sojourner
> > available on-line, plus at least a blue-million related
> great web sites,
> > email reflectors and forums. Heck, I can't find time to
> read it all, now.
> >
> > I'm glad for Rich's column, interesting and maybe less
> intimidating for the
> > less experienced. Seems to me to fill a niche otherwise ignored.
> >
> > Rick - W4SEA
> >
> > At 12:58 PM 8/21/00 -0400, you wrote:
> > >
> > >The latest issue of QST (September) came over the weekend,

> and I see that
> > >the "QRP Power" column is still a pathetic waste of a page!
> > ----- SNIP -----
> > >I'm so-o-o glad I've kept my old QSTs from the 1960s and
> '70s, when REAL
> > >articles about QRP circuits were plentiful, and highly
> useful, as well as
> > >entertaining, instead of this dumbed-down type of drivel
> that passes for
> > >technical editorial! Ugh.
> > >
> > >No wonder ham radio appears to be diminshing in its
> perceived value in many
> > >public quarters.
> > >
> > >Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.
> >
>
> --
> Bob Nielsen, N7XY nielsen@oz.net
> Bainbridge Island, WA http://www.oz.net/~nielsen
>
>

Date: Tue, 22 Aug 2000 11:10:13 -0700
From: Russ Carpenter <russ@natworld.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [77889] Results of the 2000 FLIGHT OF THE BUMBLEBEES
Message-ID: <B5C81015.55D1%russ@natworld.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

The 2000 Flight of the Bumblebees was another large-scale adventure. Our Bee roster ended up with 108 intrepid bees. From one coast to the other, the Bees hiked, biked and boated to some of the most remarkable places in America.

The soapbox was published separately in the Bee Supplement to The ARS Sojourner, which went live today. Don't miss it! <http://www.natworld.com/ars>

We honor the participatants in several interesting ways.

Most Interesting Equipment--to Paul, AA4XX, for his phased twenty meter verticals

Most Beautiful Location--to Bruce, N7CEE, for his expedition to Paris Lake,
at 11,200 feet, during a six day backpack trip in the Sierras

Most Outrageous Adventure, to the wife of Neil, W0YSE. In Neil's words: "The
xyl got my 44' long multiband CF dipole about 45' up into the trees
with the slingshot. Then she got stung by a bee!! Wouldn't ya know!!"

Highest Bumblescore--to Harvey, N6MM

Highest Home-based Score--to Jim, N0UR

Special Thanks--to Richard, GW3CW, our first European Bumblebee

Here are the results of the 2000 Flight of the Bumblebees.

Call	40M	20M	15M	10M	Points	Bees	Score
N6MM/BB	9	46	20	1	143	42	18018
N4BP/BB	0	47	37	1	170	33	16830
N7SR/BB	1	89	0	0	179	31	16647
N9AW/BB	4	68	2	0	144	36	15552
AA7QU/BB	0	39	35	0	148	31	13764
K0EVZ/BB	0	69	0	0	138	27	11178
N0SXX/BB	0	66	0	0	132	28	11088
AK7Y/BB	0	58	0	0	116	31	10788
N0UR	2	63	5	0	138	26	10764
AF5Z	0	28	24	0	104	33	10296
WF4I/BB	1	45	10	0	111	30	9990
N6GA/BB	4	35	13	1	102	32	9792
KI0II/BB	0	55	3	0	116	28	9744
K7TQ/BB	0	58	0	0	116	25	8700
KK5NA/BB	0	36	11	0	94	28	7896
K4BHI	0	38	10	0	96	25	7200
W5CGH/BB	0	47	0	0	94	24	6768
KI0MZ	0	37	6	0	86	26	6708
WA7LNW/BB	0	25	23	0	96	22	6336
W1VT	0	27	19	0	92	19	5244
KB9UUY/BB	0	32	10	0	84	20	5040
AA4XX/BB	0	36	2	0	76	22	5016
AC5K/BB	0	23	14	2	78	21	4914
W0YSE/BB	0	25	9	0	68	23	4692
N40LN	0	39	0	0	78	19	4446
WD9IFF	0	27	0	0	54	27	4374
WA4DOU	0	15	19	0	68	21	4284
N7KE	0	36	5	0	82	16	3936
AD4MZ/BB	0	15	15	0	60	21	3780
N7RVD/BB	0	26	12	1	78	15	3510
NN5B	0	24	3	0	54	21	3402

W0CH/BB	0	31	0	0	62	18	3348
KL7H/BB	0	35	0	0	70	15	3150
N2CQ/BB	15	24	1	0	65	16	3120
W9SUL/BB	2	36	0	0	74	14	3108
AD6GI	3	11	16	0	57	17	2907
N9MZP	4	19	3	0	48	20	2880
VE3VX0/BB	0	36	0	0	72	13	2808
W4EN	0	24	9	0	66	14	2772
KQ5U	0	26	0	0	52	17	2652
K0ZK	0	17	11	0	56	15	2520
HP1AC	0	13	13	2	56	14	2352
K1VP/BB	6	10	9	0	44	16	2112
K4KJP	0	15	8	0	46	15	2070
N3A0	13	18	2	0	53	13	2067
KF4AR/BB	0	7	15	0	44	15	1980
K7FD/BB	1	11	12	0	47	13	1833
W1PID/BB	8	10	5	0	38	13	1482
N7CEE/BB	5	11	4	0	35	14	1470
K7UD/BB	0	12	18	0	60	8	1440
W4ED/BB	0	11	6	0	34	14	1428
AJ4Y	0	28	1	0	58	8	1392
W8DIZ/BB	0	17	3	0	40	11	1320
KD3FG/BB	8	13	1	0	36	11	1188
K8CV	0	13	2	0	30	13	1170
AC7CF/BB	0	16	0	0	32	12	1152
AA7LE/BB	0	17	0	0	34	11	1122
N2WG/BB	0	16	2	0	36	10	1080
NK6A	0	12	8	0	40	9	1080
KD3FG/BB	8	13	1	0	36	10	1080
K04WX/BB	0	24	0	0	48	7	1008
AA8PJ/BB	2	14	1	0	32	10	960
KA8LLE	4	13	0	0	30	10	900
N5IB	0	9	3	0	24	12	864
AA8IV/BB	0	15	1	0	32	8	768
KB7MBI	0	17	1	0	36	7	756
KD7CTF	0	6	8	0	28	9	756
WE6W/BB	9	0	11	0	31	8	744
AL7FS	0	11	1	0	24	10	720
WA4SQM/BB	0	11	1	0	24	10	720
KB9LCK	0	13	0	0	26	9	702
W9FNB/BB	3	15	0	0	33	7	693
WB6JBM/BB	7	7	0	0	21	10	630
W6AGS/BB	0	13	0	0	26	8	624
K4JSI	10	7	0	0	24	7	504
VE3JC/BB	3	6	3	0	21	8	504
VE3ELA/BB	0	9	0	0	18	9	486
KJ5VW	0	9	0	0	18	8	432
K2HPV	0	6	2	0	16	7	336

KQ6DV/BB	0	11	0	0	22	5	330
WB7OEM	0	9	0	0	18	6	324
K5IS	0	9	0	0	18	6	324
KN0VCC/BB	2	8	0	0	18	6	324
KQ0I	0	10	0	0	20	5	300
AE4GX/BB	0	8	0	0	16	6	288
KQ6NO	2	6	0	0	14	6	252
KG0MZ/BB	0	6	1	0	14	6	252
K7SZ	3	5	1	0	15	5	225
N4ARW	0	7	0	0	14	5	210
WA9PWP	1	5	1	0	13	5	195
KT3A/BB	0	7	0	0	14	4	168
K9YT/BB	0	6	0	0	12	4	144
W6ZIP/BB	1	3	1	0	9	4	108
W7/JR1NKN/BB	0	0	8	0	16	2	96
GW3CWI/BB	0	5	0	0	10	0	10

Thanks for supporting The Adventure Radio Society!

Russ Carpenter, AA7QU
Contest Manager

Date: Tue, 22 Aug 2000 14:18:09 +0000
From: Michael Neverdosky <mneverdosky@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [77890] no caterwauling today :-(
Message-ID: <39A27D91.B4691FF2@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

At the apointed time today I was under a large
thunderstorm.

I will continue to try for contacts on 10m at
12 noon EDT daily. Try 28.115 and 28.065.

If 10m is really, really dead you might try 21.120.
:-))

Michael (honorary cat) N6CHV in central Florida

Date: Tue, 22 Aug 2000 11:15:14 -0700

From: "W7TRX" <w7trx@mindspring.com>
To: <zlau@arrl.org>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [77891] Re: VHF SSB QRP
Message-ID: <003101c00c64\$ec347e60\$f12179a5@fkxug>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Zack,

----- Original Message -----

From: Lau, Zack, W1VT <zlau@arrl.org>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Tuesday, August 22, 2000 6:41 AM
Subject: Re: VHF SSB QRP

> What awards are you attempting? I don't recall any VHF awards that can be
> endorsed for
> QRP endorsement,

You are correct. I had misread some info and thought that there was a QRP endorsement for VUCC.

>though I have suggested that ARCI offer a VHF award based
> on
> grid squares. But, its not that big of a deal--I'm not interested in
being
> the ARCI
> VHF awards manager.

I just recently became aware of ARCI. I hadn't looked into their awards and assumed there was a QRP equivalent of VUCC.

>
> You could get WAS-QRP, but it is quite a challenge at VHF. The ARRL will
> endorse it for
> QRP if you run 5 watts PEP
> <http://www.arrl.org/awards/was/>
>
> If you run 10W PEP on SSB, ARCI will still issue an award.
>
> CQ magazine defines QRP as 25 watts or less in their VHF contest, but
> I don't know if any CQ awards can be done with VHF QRP. WAZ on 6M?

That's why I love standards. There are so many of them!

>
> However, I think it is foolish to work on difficult awards without first

> getting the official
> rules from the sponsors. As well as any clarifications on what they
> consider QRP, or
> if they even have a QRP endorsement available.

Good advice.

73, TR
W7TRX
>
> 73--Zack W1VT

Date: Tue, 22 Aug 2000 13:38:03 -0500
From: Rick Weber <weber@accenttech.com>
To: rerobins@email.uncc.edu, qrp-l@lehigh.edu
Subject: [77892] Old regen receivers and Ross Hull
Message-ID: <39A2C85E.99904D2F@accenttech.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit

Hi Rick,

Always happy to see another ham join in the fun of operating vintage ham stations... QRP of course!

Your SW-3 sounds great and now a lot safer with the audio output transformer. I guess you could appease us purists by mounting the transformer external to the cabinet in its own little box.

I use a set of Baldwin headphones with my SW-3 which have no external metal terminals. So far, no problem.

You asked about info on a matching vintage transmitter. Check out my site for my 1929 era ham station and also the Antique Wireless Association web site. There is a wealth of information out there, and a lot of old timers who have been wonderfully generous with their time in helping me set up my vintage ham shack.

<http://www.accenttech.com/w9qz>

<http://www.antiquewireless.org>

Winter is coming; QRN is coming down. Make sure you have an set of 80

meter coils for your SW-3. The AWA site will give you times and dates for activities. Our QSO parties and contests are something to hear... especially when the wind is blowing the antennas around!

Antique hamming with fire bottles is QRP at its best!

73,

Rick Weber
W9QZ

Date: Tue, 22 Aug 2000 12:48:21 -0600
From: Pat Byers <pbyers@rttinc.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [77893] Re: Expanded frequency coverage of the SMK-1???
Message-ID: <4.3.2.7.2.20000822122526.00af2160@127.0.0.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>Bill Jones - KD7S wrote:

>Friends,
>

>I played with my SKM-1 last night in an attempt to expand the (transmit)
>frequency coverage but was unsuccessful.

>
>Paralleling a second crystal simply raised the transmit frequency well beyond
>the range of the receiver. Next, I tack-soldered a variable capacitor across
>D6/D7 but that didn't help either. I also tried what Arthur Silvers suggested
>(reducing the value of R7) without success. It's not quite as easy (at first
>glance) as it looks. Back to the drawing board.

We just moved and most of my notes and gear are still packed up so I'm writing this from memory (which may not be good <g>).

I agree that the narrow transmit range of the SMK-1 and its ancestor the TT-2 imposes a severe limitation on their usefulness. When I built a TT2 I experimented with ways of tuning and increasing the tuning range. My best result was obtained by mounting a small variable capacitor on the circuit board. With it, the tx had about 1.5 kHz bandspread. I also tried paralleling two crystals but I don't recall seeing any benefit from that experiment.

Now to the SMK-1 which has a similar transmitter . . . I've noticed a slight whoop when keying my rig which I believe is caused by turning the xtal oscillator on and off. Any others out there notice this too? My suspicion is that further modifications to this simple circuit would exacerbate this problem although I'd very much like to hear from anyone who has successfully extended the SMK-1 tuning range and maintained stability.

I think the solution might lie in a VFO or more elaborate VXO circuit. I recall that Wes Hayward W7ZOI published a wide range VXO circuit in QRP Quarterly a couple of years ago that used several transistors. Anyone for a TT-10 or TT-12? IMHO, given the trade-off involved, the SMK-1 is a wonderful little transceiver. I would have preferred a bit more audio selectivity, though. Has anyone out there added a low-pass or bandpass filter to the rx audio?

73,

Pat Byers VE6AAN
Lacombe, AB

Date: Tue, 22 Aug 2000 13:27:40 MDT
From: "david feldman" <wb0gaz@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [77894] List e-mail filtering template for qrp-l on hotmail.com?
Message-ID: <F68cxT5nwZvIPNTAbAW00000a83@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

After laboriously moving all of my list server subscriptions to an e-mail address on hotmail.com, I am unable to configure hotmail's incoming filter tool to route qrp-l traffic into a specific mailbox, due mostly to the absence of "To:" pattern matching in microsoft's filter template set, and no standard tag in Subject: line of forwarded messages (i.e., [QRP-L] in each forwarded subject would solve it, but perhaps break some other subscriber's processing.)

I realize this isn't totally qrp-l specific, but I don't know where else to turn for help (microsoft/hotmail are of no help) and the qrp-l list is the one I really enjoy but would prefer not to be in the "inbox" with individual messages.

Perhaps someone on the list has encountered and/or solved this problem?

Tnx,

73 Dave WBOGAZ wb0gaz@hotmail.com

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

Date: Tue, 22 Aug 2000 15:11:22 -0500
From: George F Franklin <w0av@juno.com>
To: weber@accenttech.com
Cc: qrp-1@Lehigh.EDU
Subject: [77895] Re: Old regen receivers
Message-ID: <20000822.151203.-491657.1.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Rick & others,

A few weeks ago I was thumbing through a 1942 ARRL Handbook (Yes, I am behind in my reading), and found the following in the National Company ad in the catalog section at the rear of the book:

National SW3, Universal Model (less coils, \$ 38.50
phones, tubes (!) and power supply

National 5886-AB AC Power Supply 32.50

Coil Sets (2 per band)
3.85/9.50 pair

The minimum wage (which I barely earned in my job as a professional radio operator/dispatcher/technican) in those days was about 35 cents per hour, as I recall. These were expensive little jewels. I certainly could not afford an SW3, but a buddy had one which I really enjoyed using in his shack. They were great little receivers.

I would have had to work about 300 hours to earn enough to buy one, even if I hadn't wasted any of my income on food, clothing, shelter, street car fare and other such foolishness.

Times have changed, and for the better.

72/3/74 de George/W0AV
SOC #101

PS-I solved my food, clothing, shelter and other problems in 1943, by joining the army (by request). No worries about ham radio, either, for almost five years.

GFF

YOU'RE PAYING TOO MUCH FOR THE INTERNET!

Juno now offers FREE Internet Access!

Try it today - there's no risk! For your FREE software, visit:

<http://dl.www.juno.com/get/tagj>.

Date: Tue, 22 Aug 2000 16:27:31 -0400

From: "Hare, Ed, W1RFI" <w1rfi@arrl.org>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [77896] RE: QRP Power (formerly Anybody Seen a PiG?)

Message-ID: <125490A005E3D3118C9C00805FC743CCB2C377@mail.arrl.org>

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"

> A few months ago, after also generally feeling that QST was
> not as strong in this area, I sat for several hours in my garage,
> thumbing through my old issues from the 60's, 70's, and 80's. I
> was quite surprised to find, in a broad scope, there is at least
> as much technical information now as then.

And in the 60s and 70s, we didn't have QEX to fill the gap. :-)

I was surprised the first time I did that, too. I also went back and looked at the old Ham Radio articles with today's eyes. I have a few observations.

First, when we read those articles in the 60s and 70s, we were new, and it was *all* high-tech to us. Those 2N2222 transistor projects were just about the neatest thing I could have handled. When I look at those articles today, I realize that they were on a level about equal to many of today's technical articles. Then, as now, there were the classic gems and the whiz-bang high-end articles, but then, as now, they were scattered at about one or two a year.

We also tend to remember the best of the best from those past issues and seem to attribute that best to the entire era. When I thumbed back through those old issues, there was the occasional dog in there, too -- an issue that just didn't seem to float my boat.

All in all, QST is designed to appeal to the average ham. Over the past years it has toned down a bit in technical content, having adding the New

Ham Companion (now Workbench) section, which is designed to appeal to the newcomer to ham radio, both HF and VHF. With a large influx of newcomers, I think that adding that material was the right choice to help keep them interested in ham radio. WE grow with the years, and QST would end up being QEX if it kept pace with what we learn. For a while in the mid 80s, it was getting that way, where the editors didn't want to publish "old hat," even though what was old hat had last been published 10 years earlier.

QST is a membership journal and as such, should contain a range of articles from technical (especially tutorial -- it needs more of that) to operating to the news and documentation of the ARRL Board minutes, etc. As such, it will not be as technical as a technical journal, as QRP as a QRP journal, as DX as a DX journal, etc. But if you look at its content, and note that most of the articles, like the QRP rags, come from its membership, I think it is filling a need nicely.

Now, if you want to see some really neat QRP construction projects in QST, write them and send them in! I have seen so much stuff in local newsletters, on web pages and in the QRP journals. This is wonderful and a great way to share the wealth with our QRP fellows, but all of these have NOT appeared in QST. QST will (and should not) become the ARRL version of QRP Quarterly, but I sure would like to see a few more neat transmitters, receivers, power meters and the like, especially to reach the non-QRPer. So when you design a neat new project, give some thought as to whether it is THE ideal project to entice others to join in the QRP fun or if it is THE ideal project to make a QRPers day. If the latter, go for the QRP mags, but if the former, send it to QST! :-)

73,

Ed Hare, W1RFI

ARRL Laboratory Supervisor

225 Main St

Newington, CT 06111

Tel: 860-594-0318

FAX: 860-594-0259

Internet: w1rfi@arrl.org

ARRL Web: <http://www.arrl.org>

ARRL Technical Information Service: <http://www.arrl.org/tis/>

> -----Original Message-----

> From: Rick Sealey [mailto:rsealey@InfoAve.Net]

> Sent: Tuesday, August 22, 2000 9:21 AM

> To: Low Power Amateur Radio Discussion

> Subject: Re: QRP Power (formerly Anybody Seen a PiG?)

>

>

> Huh?
>
> Alex, you must be getting a different version of QST than me.
> Actually,
> over the last several years I've noticed considerable
> improvement in its
> technical content, and recently, especially as related to the
> subject of QRP.
>
> A few months ago, after also generally feeling that QST was
> not as strong
> in this area, I sat for several hours in my garage, thumbing
> through my old
> issues from the 60's, 70's, and 80's. I was quite surprised
> to find, in a
> broad scope, there is at least as much technical information
> now as then.
> As for Rich Arland's column, he stated from the get-go that it wasn't
> intended to be technically deep, but more suitable for
> newcomers. I think
> he's hitting that target pretty well.
>
> Fortunately for those of us who are looking for a little more
> "meat", we've
> got a lot of great publications available, such as QQ from
> ARCI, QRPP from
> NORCAL, QRP Homebrewer from NJQRP, Low Down from Col. QRP, SPRAT from
> G-QRP, and many others. Then there's the Internet with the
> ARS Sojourner
> available on-line, plus at least a blue-million related great
> web sites,
> email reflectors and forums. Heck, I can't find time to read
> it all, now.
>
> I'm glad for Rich's column, interesting and maybe less
> intimidating for the
> less experienced. Seems to me to fill a niche otherwise ignored.
>
> Rick - W4SEA
>
> At 12:58 PM 8/21/00 -0400, you wrote:
> >
> >The latest issue of QST (September) came over the weekend,
> and I see that
> >the "QRP Power" column is still a pathetic waste of a page!
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> >I'm so-o-o glad I've kept my old QSTs from the 1960s and
> '70s, when REAL

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> useful, as well as
> >entertaining, instead of this dumbed-down type of drive1
> that passes for
> >technical editorial! Ugh.
> >
> >No wonder ham radio appears to be diminshing in its
> perceived value in many
> >public quarters.
> >
> >Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.
>
>

Date: Tue, 22 Aug 2000 13:33:45 -0700
From: "JC Smith" <jc-smith@worldnet.att.net>
To: <nf9k@eudoramail.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [77897] Re: Thanks/ QRP Expedition
Message-ID: <002f01c00c78\$4ef287a0\$c066480c@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi All,

Joel's comment about friends calling his wife to let her know he was well reminds me of something that I do and would like to do more of. When I'm backpacking I take advantage of the e-mail capabilities of fellow hams I am working to send messages home and even get replies. No one has ever offered to do that for me (I'm sure the thought just didn't occur to them) but whenever I asked, and they had the capability, (about 33% of the time) they were always glad to do it, and even relay back the reply in the next couple days.

So, my suggestion would be that if you are working an op who tells you he/she is on a backpacking trip, you might offer to relay an e-mail message or two for them (I already know YOU have the capability, but they probably don't).

This may not always be true, but so far I have found that once I have established a good Q5 contact with someone, the path usually is good for the remainder of our pack trip (usually no more than two weeks). If they are willing to come back on some sort of a sked in following evenings (and many seem delighted to do so) then a fair amount of traffic can be passed via the radio/e-mail//e-mail/radio link. This can be fairly important in the event

of emergencies, on either end.

Many, myself included, will arrange a sked with someone prior to departure for this purpose. The problem is that often the path between you and your prearranged sked is not good. If you regularly pack to the same location, or don't go too far from home, that may be less of a problem, but if you travel half way across the country a prearranged sked with a QRP station in the mountains may not prove to have a good enough link to pass traffic. I can always find plenty of Q5 contacts, but it is rare when I get a Q5 report from one of my prearranged skeds.

Just something to think about.

72 - JC,k0hps@amsat.org

(who lives in the SF bay area, but will be in the Wind River Mountains in Wyoming between 8/27/00 and 9/10/00)

----- Original Message -----

From: Joel Kluender, NF9K <nf9k@eudoramail.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Tuesday, August 22, 2000 9:56 AM

Subject: Thanks/ QRP Expedition

> All,

>

> Thanks to anyone who might have been listening out for me on my recent hiking/fishing/hamming trip to Cooke City, MT.

>

> In short, I did a whole lot less hamming than anticipated because of the tons of hiking & fishing we did, and the fact that my QTH was often not amenable to getting on the air. We were often in "fishbowl" like areas formed by the surrounding mountains. I managed to talk to K0PC and KC6DKE while tenting next to Round Lake (near Cooke City) at 9300 ft, and later talked to W7QQQ while at around 11k feet at the West Summit in Shoshone National Forest. It was a good thing I used a self-supporting vertica as I was above the treeline! Other than that, I did not manage to get on the air. But the little bit of radio I did get to play was tons of fun.

>

> Thanks to K0PC and KC6DKE for calling my wife at home and letting her know the bears hadn't eaten me yet!

>

> 73,

> Joel NF9K

> ---

> Joel Kluender, NF9K

> 870 Prairie Street S.

> Shakopee, MN 55379

>
> Great is the Lord, and worthy of praise!
>
>
>
> Join 18 million Eudora users by signing up for a free Eudora Web-Mail
account at <http://www.eudoramail.com>
>

Date: Tue, 22 Aug 2000 13:46:20 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: qrp-1@lehigh.edu, elecrafft@qth.net
Subject: [77898] Noise Generator Kits-delay
Message-ID: <200008222042.NAA11422@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well, I really didn't want to have to do this, but we have had a delay in shipping noise generator kits. Ran out of boards, and FAR circuits scrambled to get them to us, but they haven't arrived yet.....should be here in a day or two.

If you have sent an order, I will get it out as soon as I get the boards, which, hopefully, should be by the end of this week.

Thanks for your orders, and patience.

Bob Hightower NK7M
Chandler, AZ
SOC #20
K2 #157/255

<http://www.extremezone.com/~nk7m>

Date: Tue, 22 Aug 2000 16:56:12 -0400
From: "Charles Mabbott" <crmabbott@mediaone.net>
To: <qrp-1@Lehigh.EDU>
Subject: [77899] FW: Thanks/ QRP Expedition
Message-ID: <000101c00c7b\$6853b180\$0201a8c0@mw.mediaone.net>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

"Joel's comment about friends calling his wife to let her know he was well reminds me of something that I do and would like to do more of. When I'm backpacking I take advantage of the e-mail capabilities of fellow hams I am working to send messages home and even get replies. "

Something else to consider are traffic nets, if you have 80 meter capability. I know folks that check in to traffic nets and pass messages to family about there whereabouts and so on. There are both CW and SSB nets. Found the CW nets to be more efficient and quicker to get in and out of.

Traffic nets run once or twice a day and things can be passed. They are always looking for traffic to pass, helps justify them being there and keeps them on their toes.

For examples on how to create 'traffic' see <http://www.qsl.net/w8ihx/> and there are many helpful links and documents.

73 oo,
Chuck AA8VS
MI-QRP #M1212
Firebird PIN #2117
FPQRP-113
TSRAC #3952
QTH Canton, MI

Date: Tue, 22 Aug 2000 17:19:05 -0400
From: Tom Isgro <k8cz@concentric.net>
To: brian@iquest.net
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [77900] Re: CD based Tomes
Message-ID: <39A2EE49.D3317075@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bought mine in May at Dayton from the guys in the German radio club.

Try

<http://www.funkamateur.de>

You might also try the G-QRP club at

<http://www.gqrp.demon.co.uk>

--

72, 73 oo's

Tom K8CZ Hamilton, OH

FPqrp #-41, QRP-1 945, FISTS 2360, NORCAL 2113, ARCI 9606,
10-10 68364, SCI 1479, ARS 203, ARRL

Date: Tue, 22 Aug 2000 14:31:05 -0700
From: Andreas Junge <andreas@OpenGrid.Com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [77901] Rotatable dipoles ?
Message-ID: <E5759E504187D311B0CF00C04F60ADCD2C79A1@galaxy.opengrid.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

All,

Does anybody have any experience with rotatable dipoles for 10/15/20M? I am currently using a Alpha Delta DX-EE multiband dipole up 60' (strung from N to S) and a R7000+. Unfortunately I can not move the trees that support the dipole :-)

I considered one of the "small" Yagis like the MA5B from Cushcraft but even those are a little bit bigger then my neighbors are willing to handle.

Please respond directly to me. I'll summarize the results for the list.

73,

Andreas, N6NU
Menlo Park, CA (CM87VK)

Date: Tue, 22 Aug 2000 15:33:15 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>

To: qrp-1@lehigh.edu, Morse.Express@edison.chisp.net, cqclist@cqc.org,
brasspounders@e-groups.com, keysnbugs@egroups.com
Subject: [77902] New Product: Morse Express Millennium Key
Message-ID: <39A29D3B.32342.119F7AB@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT

In celebration of the new Millennium, Llaves Telegraficas Artisanas (LTA) has made a special limited edition key for Morse Express. The keys are hand made in the Balearic Islands, and this one is a beauty.

The Morse Express Millenium Key has the same mechanism as the LTA Model GMP but here are the things that make it special:

--- Each Millennium Key is made with hand selected parts, highly polished, and plated in gold. The knob and the base are made of ebony for a striking high-tech black and gold appearance

--- Each key is has a certificate on the bottom showing its serial number and identifying it as one of the limited production Morse Express Millennium Keys.

--- The Millennium Key comes in a presentation quality wooden box with red felt lining.

Only 100 Morse Express Millennium Keys were made, and they are very reasonably priced at \$89.95. Requests for specific serial numbers will be filled in the order received.

You can see pictures of the Millenium Key at <http://www.MorseX.com/lta> .

As always, you can order on our secure server at <http://www.MorseX.com>, or use our toll-free credit card order line (800) 238-8205, or mail to Morse Express, 2460 S. Moline Way, Aurora CO 80014. For more information about the items mentioned here or any of our other products, visit our web site or call (303) 752-3382.

Date: Tue, 22 Aug 2000 18:24:47 -0400
From: Dave Pomeroy <dave_pomeroy@voyager.net>
To: "elecrafft@qth.net" <elecrafft@qth.net>, Low Power Amateur Radio Discussion
<qrp-1@Lehigh.EDU>
Subject: [77903] rotating guy rings
Message-ID: <39A2FDAF.4B17D77C@voyager.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Folks,

I have 8 new Channel Master rotating guy rings. It looks like they will fit a mast up to about 2 inch in diameter. I paid 13.95 a piece for them. I'll sell for 13.95 plus shipping. These have been discontinued and are no longer made.

--

Dave Pomeroy K8DNP SouthWest Michigan

Date: Tue, 22 Aug 2000 17:26:21 -0500
From: lnrr@juno.com
To: qrp-1@Lehigh.EDU
Subject: [77904] RS-6 Filter Cap
Message-ID: <20000822.172622.-261821.4.lnrr@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Would the person who emailed me about the filter cap in the RS-6 spy radio send me an email? I lost your address.

Bryan Turner
<http://homestead.juno.com/lnrr/index.html>
<http://www.qsl.net/w8ln/>

North AL/Middle TN Railfan List -
<http://www.egroups.com/group/decaturnjunction>

Date: Tue, 22 Aug 2000 18:37:28 EDT
From: GElam30092@aol.com
To: nk7m@extremezone.com, qrp-1@lehigh.edu, elecrafft@qth.net
Subject: [77905] Re: [Elecrafft] Noise Generator Kits-delay
Message-ID: <9f.9c45029.26d45aa8@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 8/22/00 2:08:17 PM US Mountain Standard Time, nk7m@extremezone.com writes:

<< If you have sent an order, I will get it out as soon as I get the boards, which, hopefully, should be by the end of this week. >>

What I haven't told Bob is that 85 kits are ready for me to take to his house! Just finished them and was on the computer trying to locate his house/phone when I read his message. I also have another 15 that only lack printing the instructions.

Keep them orders comin'.... we're start shipping them again tomorrow!

73's,
Gerry Elam, K7LR0
PHX AZ

Date: Tue, 22 Aug 2000 22:42:41 GMT
From: "Bruce Prior" <n7rr@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [77906] DSW Mod Inductor Group Buy
Message-ID: <F1345k1Ed28kIN4MmXK00000180@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Hi Gang!

My article, "Modifying Small Wonder Labs DSW Rigs to Receive SSB," was just published in the September 2000 issue of CQ Amateur Radio, pages 28-29. The simple modification allows you to take advantage of the full band coverage of the DSW rigs by being able to receive SSB stations which are operating LSB on 80 and 40 meters and on USB on 20 meters.

The modification involves installing one fixed inductor in parallel with trimmer capacitor C14. By the way, the 8.2-uH inductor is the best one for any of the DSW-20 or DSW-80 rigs, irrespective of the value of C14. (In the article a distinction is made between the gray 70-pF and the black 90-pF C14 trimmer. This is unnecessary. A 8.2-uH inductor works best with both trimmer types.) The 15 uH inductor is the correct one for the modification of the DSW-30 or DSW-40. Since the 30-m band is not normally used for phone, it is unlikely that DSW-30 owners would wish to change its receiving sideband.

The hardest part is finding the inductor. I recommend a surface-mount style, since it is very easy to solder directly to the underside of the DSW board. DigiKey will be getting its inductor shipment from Delevan in about 6 weeks. It would be more economical to do a group buy. I will handle the group buy for people who are interested. The cost is \$1.00 per inductor

plus a flat \$2.00 shipping cost for any quantity to the U.S., Canada or Mexico, or similar \$4.00 shipping cost for elsewhere in the world.
Washington State residents please add 7.9% sales tax.

If you are interested please complete the following information and send it back to me (off-list, please) by e-mail, then print out your e-mail and enclose the print-out with your payment. Please make checks payable to Bruce Prior and mail them to Bruce Prior, 853 Alder Street, Blaine, WA 98230-8030 USA

Name:
Street Address or POB:
City:
State/Province:
Zip or Postal Code:
Country:
e-mail address:

Quantity:

15-uH inductor for DSW-30 or DSW-40 @ \$1.00 =

8.2-uH inductor for DSW-20 or DSW-80 @ \$1.00 =

Shipping to USA, Canada or Mexico: \$2.00
Shipping to the rest of the world: \$4.00
Washington State residents add 7.9% sales tax:

TOTAL:

Please allow about 8 weeks for delivery. I ll let you know via e-mail when I begin shipping. I will not cash your cheques until I begin shipping.
Enjoy your cross-mode QSOs with your DSW rigs!

72, Bruce Prior N7RR

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>

End of QRP-L Digest 1921
